Post Session Announcement

August 8-26
1938

The University of Hawaii Bulletin is issued once in each of the following months: November, December, January, February, March, April, May, June, July and October. Entered as second class matter at Honolulu, T. H., under Act of Congress of August 24, 1912.
THE POST SESSION

In response to the needs of teachers in Hawaii, the University is offering a post session from August 8 to 26, immediately following the regular summer session. This is in the nature of an experiment for 1938, but should the response prove adequate it may become a regular part of future summer sessions.

This increase of summer offerings is designed to (1) make it possible for rural teachers to secure more residence credits; (2) aid the group who will have difficulty in meeting degree requirements by 1942; (3) make it possible for graduate students to shorten somewhat the time required for advanced degrees; (4) meet the needs of teachers requiring work in secondary education and administration for advanced departmental certificates; (5) aid Kona and Lanai teachers who cannot attend the regular summer session; (6) make it possible for vocational teachers, who have only three weeks vacation, to attend summer sessions; and (7) eliminate the necessity for some students to carry more than six units during the regular summer session.

FACULTY

WILLIAM T. BRYAN, PH.D., Assistant Professor of Education.
THAYNE M. LIVESAY, PH.D., Professor of Psychology and Education, and Director of Summer Sessions and Admissions.
JESSE A. TANNER, PH.D., Assistant Professor of Education.
BRUCE WHITE, PH.D., Assistant Professor of Education.
BENJAMIN O. WIST, PH.D., Professor of Education and Dean of Teachers College.

REGISTRATION

Registration for the post session will be on Saturday, August 6, between the hours of 8 A.M. and 12 M., in Hawaii Hall.

CREDITS

Each course will meet five times per week and give one credit. The maximum registration will be three courses.

FEES

The regular tuition fee of $5 per credit hour will be charged for each course. Late registration fees and refunds will follow the same principle as applied in the regular summer session.
COURSES OF INSTRUCTION

Courses numbered 200 to 299 are Upper Division courses, but open to graduate students. Courses numbered 300 and over are Graduate courses, and open only to graduate students.

S207. UNITS AND LESSON PLANS IN THE SECONDARY SCHOOL. White
Principles and procedures involving the unit idea. The essential elements of the unit; a study of some typical unit plans; selecting and defining units; the planning of learning activities. Daily at 9.

S218. THE SCHOOL AND THE COMMUNITY. Tanner
The aim of this course is to make teachers more efficient in assisting pupils in their problems of adjustment to the life of the community, and to help teachers see in the school an agency for studying the child and rendering service to the community. Daily at 9.

S221. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES. Livesay
Experimental evidence bearing upon individual differences, causes of such differences, and the implications for educational organization and procedure. Daily at 8.

S225. PURPOSE AND SIGNIFICANCE OF ELEMENTARY EDUCATION. Bryan
The social bases of education; the changing significance of childhood education; education as creative; education as transmissive; indoctrination and pressure groups; development of leadership in the elementary school; characteristics of the good elementary school; the objectives of the elementary school, and the place of the elementary school in the American school system. Daily at 10.

S236. PSYCHOLOGY OF ADOLESCENCE. Livesay
A study of the characteristics of pupils at the Junior and Senior high school levels, with applications to the educational and social problems which arise at these periods. Daily at 10.

S297. HAWAIIAN EDUCATIONAL HISTORY IN MODERN TIMES. Wist
Beginning with annexation to the United States, the historical events which have influenced education in the Territory will be traced. The Organic Act and other legislation; Industrial Expansion and Immigration; Foreign Language Schools; Secondary and Higher Education; and Educational Surveys. Daily at 11.

S349. HISTORY OF SECONDARY SCHOOL ORGANIZATION. Tanner
The historical development of secondary school organization with emphasis upon the economic, social, and political backgrounds responsible for its growth. Daily at 11.

S365. THE SUPERVISION OF INSTRUCTION. Wist
A course designed for administrators and prospective administrators, with intensive consideration of the supervisory aspect of the work of the school principal. Particular emphasis on the place of supervision in the modern educational setting; organization for supervisory service in relation to other responsibilities; and techniques for effective supervisory service to teachers. Daily at 9.

S366. ISSUES IN SCHOOL ADMINISTRATION. Bryan
A consideration of conflicts in the areas of theory and practice in school administration, especially such conflicts as structure and function in school organization; lay and professional control of education; democracy and autocracy in administration; administration to meet the needs of pupils, or to meet the needs of teachers; leadership of ability and leadership of position; policy making and policy execution, and other issues of interest to the group. Daily at 8.

S367. THE SECONDARY SCHOOL PROGRAM. White
Problems of the administrator in forming and scheduling the high school program of studies. Programs for various types and sizes of high schools will be considered. Daily at 10.
### SCHEDULE

<table>
<thead>
<tr>
<th>Time</th>
<th>Administration</th>
<th>Secondary</th>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>366</td>
<td>---</td>
<td>221*</td>
</tr>
<tr>
<td>9</td>
<td>365</td>
<td>207</td>
<td>218</td>
</tr>
<tr>
<td>10</td>
<td>367**</td>
<td>236</td>
<td>225</td>
</tr>
<tr>
<td>11</td>
<td>---</td>
<td>349</td>
<td>297</td>
</tr>
</tbody>
</table>

*Also Administration  **Also Secondary
ANNOUNCEMENT
OF THE
GRADUATE DIVISION
1938-1939
GRADUATE DIVISION

OFFICERS OF ADMINISTRATION

David L. Crawford, LL.D., President of the University
Arthur R. Keller, M.S., Vice-President of the University
Paul S. Bachman, Ph.D., Director of the Graduate Division
Royal N. Chapman, Ph.D., Dean of the Graduate School of Tropical Agriculture
Gregg M. Sinclair, M.A., Director of the Oriental Institute
Thomas A. Jaggar, Ph.D., Director of the Kilauea Volcano Laboratory
Helen B. MacNeil, M.A., Registrar

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

1938-1939

1938

June 27  Summer Session begins
August 5  Summer Session closes
Sept. 23-24  Registration of Graduate Students
Nov. 15  Last day for making application for graduation in June

1939

Feb. 6-11  Mid-year examinations
Feb. 17-18  Registration of graduate students for second semester
May 1  Last day for arranging date of final examination for advanced degrees
June 12-17  Final examinations
June 15  All dissertations must have been deposited in the University Library
June 20  27th Annual Commencement
June 26  Summer Sessions begins
FACULTY

Only those faculty members are listed who offer advanced courses in those fields in which candidates may major for advanced degrees.

ANTHROPOLOGY AND SOCIOLOGY
Felix M. Keesing, Litt.D., Anthropology
Andrew W. Lind, Ph.D., Sociology
Gordon T. Bowles, Ph.D., Anthropology
John E. Reinecke, Ph.D., Anthropology and Sociology

BOTANY
Harold St. John, Ph.D., Taxonomy
Oscar N. Allen, Ph.D., Bacteriology
Harry F. Clements, Ph.D., Plant Physiology
Daniel M. Weller, Plant Anatomy and Histology
G. Keith Parris, Ph.D., Plant Pathology

CHEMISTRY
Frank T. Dillingham, M.A., Agricultural and Biological Chemistry
L. N. Bilger, Ph.D., Organic Chemistry
Earl M. Bilger, Ph.D., Physical Chemistry
John H. Payne, Ph.D., Organic Chemistry

ECONOMICS AND BUSINESS
Merton K. Cameron, Ph.D., Economics
Matthew M. Graham, C.P.A., Accounting
Harold J. Hoflich, Ph.D., Finance
William H. Taylor, Ph.D., International Economics and Trade

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
Madorah E. Smith, Ph.D., Educational Psychology
Jesse A. Tanner, Ph.D., History of Education
Bruce White, Ph.D., Secondary Education
William T. Bryan, Ph.D., Curriculum
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
Ralph S. Kuykendall, M.A., Hawaiian History
Charles H. Hunter, Ph.D., American History
Klaus Mehnert, Ph.D., Russian and German 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

SOCIAL WORK TRAINING
Eileen Blackey, M.S.S., Director of the Course

ZOOLOGY
Charles H. Edmondson, Ph.D., Marine Biology
Christopher J. Hamre, Ph.D., Histology
F. G. Holdaway, Ph.D., Entomology
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, Sc.D., Genetics
Harold S. Palmer, Ph.D., Geology
George 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 Chen, Ph.D., Chinese History
Yuan Ren Chao, Ph.D., Linguistics
Junjiro Takukusu, D.Litt., Oriental Philosophy
Shigeharu Kimura, Ph.D., Japanese History
Denzel Carr, Ph.D., Linguistics
Shunzo Sakamaki, M.A., Japanese History
Tadao Kunimoto, M.A., Japanese Language
Yukuo Uyehara, M.A., Japanese Language
Kenneth K. S. Chen, M.A., Chinese Language
Charles A. Moore, Ph.D., Philosophy
Stanley D. Porteus, D. Sc., Racial Psychology
Paul S. Bachman, Ph.D., Political Science
Felix M. Keesing, D.Litt., Anthropology
Andrew W. Lind, Ph.D., Sociology
John W. Coulter, Ph.D., Geography
Klaus Mehnert, Ph.D., Russian History
William H. Taylor, Ph.D., Economics
Ralph S. Kuykendall, M.A., Pacific 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
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, zoology, and in the sciences basic to tropical agriculture.

In certain of these fields the opportunities are unique. Peoples of the Occident, Orient and South Seas meet and mingle in the Territory, offering 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 those interested in physical geology and geophysics, no superior natural laboratory exists, for through cooperative agreement with the National Park service the facilities of the Kilauea Volcano Laboratory are available to qualified graduate students and research workers. Similarly the location of the Islands offers the student 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 the various 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 certain research organizations cooperating with the University in the Graduate School of Tropical Agriculture. These cooperative 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, conducted jointly by the University and the United States Department of Agriculture.
- The Bernice P. Bishop Museum with its extensive collections of Hawaiian and South Pacific plants and insects.

Opportunities for graduate work are not confined to those fields where local conditions offer unusual possibilities for study and research. The University has long emphasized the study of the cultures and civilizations of the Far East, ranking third among American universities in 1930 in the number of courses offered. Furthermore, it has been the practice of the University to have visiting professors from China and Japan join the faculty for a semester or a year. For the further development of this field, the Oriental Institute has recently been established and the offering of graduate work in Far Eastern studies increased. Opportunities for graduate study in this field are enhanced by the special facilities for the study of Oriental languages and for the translation of source material. The central location of the Territory with respect to the Pacific area and the excellent library facilities afforded by the University, the Institute of Pacific Relations, the Bishop Museum, the Carter Library, and the Territorial Archives, create a unique opportunity for the study of the history and international relations of the Pacific.

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 their respective professions.
Libraries

The University Library contains approximately 107,000 volumes and 318,000 pamphlets. Special emphasis has been placed upon the collections of research materials relating to the Pacific and Far East. Publications in Chinese, Japanese and Russian are cataloged 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 is now assisting 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, of special importance to students of tropical agriculture. In addition, at the Hawaiian Volcano Observatory there is a good collection of publications relating to volcanology and seismology. Efforts have been made by these libraries to avoid needless duplication in the building up of their respective collections.

Graduate Study in the Summer Session

A six weeks summer session affords opportunities for teachers and others who are unable to attend during the regular session. A number of courses carrying graduate credit in various fields are offered by a faculty drawn from both sides of the Pacific. The School of Pacific and Oriental Affairs, a special feature of the summer session, provides facilities for graduate study and research in the cultures and problems of the nations bordering the Pacific. Other special features of the summer session are the opportunities for graduate research at the Kilauea Volcano Laboratory and the special offering in social work training.

Organization

The Graduate Division is administratively independent of the undergraduate colleges but closely cooperates with them in curriculum and instructional personnel. The general rules and regulations governing graduate study are formulated by the Graduate Committee, of which the Director of the Graduate Division is chairman. For the purpose of emphasizing advanced study in certain fields and of cooperating with affiliated research institutions, the following organizations have been established by the University administration:

The Graduate School of Tropical Agriculture.
The Oriental Institute.
The Kilauea Volcano Laboratory.

Guided by the general rules and regulations of the Graduate Committee, these organizations in their special fields admit students to candidacy, determine the courses of study to be pursued, supervise the preparation of theses, and recommend candidates for advanced degrees.

Admission

Admission to the Graduate Division is granted to graduates of reputable colleges and universities. Applications 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. Registration is not complete until such records are on file. These transcripts become a permanent part of the University files and are not returned.
Admission to the Graduate Division does not imply admission to candidacy for an advanced degree. Such admission is granted only after a special committee representing the department in which the candidate proposes to work for the 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 of admission to candidacy. However, the Graduate Division reserves the right to deny further registration to any student whose work is not of a grade sufficiently high to warrant continuation.

Graduate work done 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 shall not exceed eight semester hours. Seniors in the University 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 graduate student is permitted to register for more than sixteen credit hours a semester or for more than six hours in a summer session. The number of credit hours which may be carried by student assistants is limited by the nature of their duties.

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 type of Master's degree granted is determined by the candidate's bachelor degree unless the requirements of more than one bachelor's degree have been met. Graduate students majoring in Education are eligible for the Master of Education degree only.

The minimum period of residence is one academic year. Four summer sessions with additional non-residence research or study may be accepted as fulfilling the residence requirement. Candidates for the Master's degree are ordinarily expected to complete the work for the degree within five years of the date on which they first registered in graduate courses. However, upon the recommendation of the committee in charge of the candidate's work, the Director of the Graduate Division may grant an extension of time in cases where illness, employment on outside islands, or the nature of the thesis subject makes it impossible to complete the work for the degree within the five-year period.

Thirty semester hours of graduate study are required for the Master's degree of which not less than six or more than twelve hours may be earned in research courses where the work done is directly related to the preparation of the thesis. 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 numbering 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 may be required of candidates in other fields at the discretion of the qualifying committee.

A thesis is required of all candidates for the Master's degree. It should deal with a topic within the field of the major. The thesis must be written in acceptable English and show evidence of ability to do intelligent research and to arrive at logical conclusions. The thesis 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 (number 400)
in his major field is a committee appointed to supervise the preparation of the thesis. A candidate expecting to receive the Master’s degree in June must turn over copies of the completed thesis to the members of his committee for final checking by May 15 (by May 1 for candidates in English). The thesis should be accompanied by a short summary of the findings or conclusions. Instructions as to the form of the thesis may be obtained from the Director of the Graduate Division.

A candidate planning to graduate in June must notify the Director not later than November 15. A candidate expecting to finish at the end of the summer session or at the end of the first semester must give notice to the Director at the beginning of that session or term.

Arrangements for the final examinations 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 a committee composed of 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 carrying out of the research work or necessary to the conclusions reached. If the results of the examination are satisfactory, a typewritten and carbon copy of the thesis signed by the members of the examining committee must be deposited in the Library as the permanent property of the University, together with a fee for the binding of both copies.

**CIVIL ENGINEER DEGREE**

The degree of Civil Engineer (C.E.) will be granted to Bachelors of Science in Civil Engineering from this institution, who after graduation, shall complete two years of practical experience in their chosen profession, present a satisfactory paper upon some topic of interest connected with their work, complete certain assigned problems, and pass required examinations. Regulations governing the granting of this degree are essentially those regulating candidates for the Master’s degree, in so far as fees, registration, and completion dates, are concerned.

**SUGAR TECHNOLOGIST DEGREE**

The degree of Sugar Technologist (S.T.) may be 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, two years of practical experience after graduation are required and the candidate 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 of distinct importance and closely allied to the practical work of the candidate, must be presented for the approval of the candidate’s committee. Regulations governing this degree are essentially those governing candidates for Master’s degrees.

**DOCTOR OF PHILOSOPHY DEGREE**

The Doctor of Philosophy degree is offered only in the Graduate School of Tropical Agriculture.

For the Doctor of Philosophy 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 the necessary 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, and a student will not be considered a candidate for the Doctor’s degree until he has passed this examination. The final examination will be given on completion of the Doctor’s dissertation, and will comprise a presentation and defense of the dissertation.
REQUIREMENTS FOR THE PROFESSIONAL CERTIFICATE

The Territorial Department of Public Instruction has fixed the following requirements for the Professional Certificate which it grants in recognition of graduate work done by teachers in service: 30 hours of graduate credit of which at least 15 hours must be in the field of educational philosophy, educational psychology, history of education, elementary or secondary curriculum, or school administration.

Tuition and Fees

All regular graduate students pay a tuition fee of $50 and a registration fee of $10 a semester. Graduate students registered for less than ten credit hours pay a combined tuition and registration fee of $5 a credit hour. Laboratory fees are required in many of the courses in the biological and physical sciences and vary with the individual course. Other fees include a $5 diploma fee and a $4 fee for the binding of the master's thesis.

Living Accommodations and Expenses

Excellent accommodations for men students are provided at Atherton House, a dormitory adjoining the campus and conducted along "international house" lines. The rate for board and room ranges from $40 to $55 a month. The Women's Dormitory furnishes room and evening meal (except Sundays) for $25 a month. Breakfasts and lunches are not included in the Women's Dormitory rate but may be obtained at the University Cafeteria at reasonable prices. Living accommodations in private homes near the University are available at moderate rates.

Graduate Scholarships and Fellowships

The University offers a number of graduate scholarships covering tuition, registration, and laboratory fees to students qualified to pursue graduate study in any of the fields in which the University offers graduate work leading to the Master's degree. In addition, graduate assistantships are open to holders of the above scholarships and pay from $200 to $500 a year. Recipients of these assistantships are assigned to duties as research workers, laboratory assistants, section leaders, or readers.

During the summer of 1938 the University is offering graduate scholarships covering all tuition and laboratory fees at the Kilauea Volcano Laboratory to students of physical geology and geophysics. A limited number of graduate scholarships are available to qualified students in Oriental studies. A more detailed description of these scholarships may be obtained from the Director of the Oriental Institute.
COURSES FOR GRADUATE STUDENTS

Listed below are the requirements for admission to candidacy, the regulations with respect to the graduate program, and the courses accepted for graduate credit in each of those fields in which the University offers advanced degrees. Related courses numbered 200 or over not appearing below may be taken for graduate credit only with the permission of the candidate's committee and of the Director of the Graduate Division. Furthermore, in all courses numbered 200-299 the letter G must follow the number of the course on the student's registration card and a grade of B or better obtained if credit toward an advanced degree is desired. Students registered for courses numbered 300-399 are graded S (Satisfactory) or U (Unsatisfactory). No credit is granted in thesis research courses (No. 400) until the thesis has been accepted. Candidates for advanced degrees failing to complete successfully 75% of the course credits carried will be automatically dropped from candidacy.

Courses not offered in 1938-39 are marked with an asterisk (*). Courses offered in the Graduate School of Tropical Agriculture are indicated by a dagger (†).

Anthropology

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

1. A minimum of 18 semester hours of undergraduate credit in anthropology.

2. An oral examination covering previous work in this field upon completion of one semester of graduate study.

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

COURSES FOR GRADUATES AND UNDERGRADUATES

ANTHROPOLOGY

*250 The Polynesians
First semester, 2 credits.

252 Peoples of the Pacific
Second semester, 2 credits.

254 Peoples of Asia
First semester, 2 credits.

260 Physical Anthropology
First semester, 3 credits.

262 Linguistics
First semester, 3 credits.

263 Prehistory and Archaeology
Second semester, 3 credits.

265 Primitive Society
First semester, 2 credits.

267 Primitive Religion and Philosophy
First semester, 2 credits.

268 The Art and Literature of Primitive Peoples
Second semester, 2 credits.

*272 Modern Changes among Pacific Peoples
Second semester, 2 credits.

273 Applied Anthropology
Summer session, 1938, 2 credits.
276 Phonetic and Phonemic Theory  
   Second semester, 2 credits  
   Carr

278 Race Mixture  
   Second semester, 2 credits.  
   Bowles

290-291 Independent Study and Honors  
   Hours and credits to be arranged.  
   Staff

COURSES PRIMARILY FOR GRADUATES

300-301 Advanced Reading  
   Credits to be arranged.  
   Staff

350-351 Seminar in Anthropology  
   Continuous throughout year, 2 credits each semester.  
   Keesing

400 Thesis Research  
   Credits to be arranged.  
   Staff

Botany

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

(1) A minimum of 36 semester hours of undergraduate work in botany including courses in general botany, system botany of flower plants, general bacteriology, physical factors in plant nutrition and growth, or the equivalent.

(2) An oral examination covering previous work in this field upon completion of one semester of graduate study.

The graduate program: Courses in the major field will be selected from those listed below. A maximum of 6 hours may be earned in advanced courses in either chemistry, nutrition or zoology.

COURSES FOR GRADUATES AND UNDERGRADUATES

BOTANY

210 Botanical Seminar  
   Continuous throughout year, 1 credit each semester.  
   Staff

253 Plant Ecology  
   Second semester, 4 credits.  
   St. John

254 Advanced Taxonomy  
   First semester, 2 or more credits.  
   St. John

258 Agricultural Bacteriology  
   First semester, 4 credits.  
   Allen

*260 Medical Bacteriology  
   First semester, 4 credits.  
   Allen

*263 Plant Pathology  
   Second semester, 3 credits.  
   Parris

*265 Taxonomy of the Dicotyledons  
   Second semester, 1 credit.  
   St. John

267 Taxonomy of the Higher Dicotyledons  
   Second semester, 1 credit.  
   St. John

268 Microtechnique  
   Second semester, 3 credits.  
   Weller

*269 Plant Anatomy  
   Second semester, 3 credits.  
   Weller

270 Physiology of Bacteria  
   Second semester, 3 credits.  
   Allen
273 Plant Biophysics
   First semester, 3 credits.  
   Clements

274 Laboratory Technique in Plant Biophysics
   First semester, 2 credits.  
   Clements

275 Plant Biochemistry
   Second semester, 3 credits.  
   Clements

276 Laboratory Technique in Biochemistry
   Second semester, 2 credits.  
   Clements

COURSES PRIMARILY FOR GRADUATE STUDENTS

300 Botanical Research
   Credits to be arranged.  
   Staff

†303 Plant Pathology Seminar
   First semester, 1 credit.  
   Linford

†304 Research in Plant Pathology
   Credits to be arranged.  
   Linford

†350 Research in Plant Physiology
   Credits to be arranged.  
   Staff

†351 Plant Physiology Seminar
   Second semester, 1 credit.  
   Clements

400 Thesis Research
   Credits to be arranged.

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 first registration as graduate student.

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

COURSES FOR GRADUATES AND UNDERGRADUATES

CHEMISTRY

211 Physical Chemistry
   Continuous throughout year, 3 credits each semester.  
   E. M. Bilger

212 Physical Chemistry Laboratory
   Continuous throughout year, 1 credit each semester.  
   E. M. Bilger

260 Biological Chemistry
   First semester, 3 credits.  
   Dillingham

261 Agricultural Chemistry
   Second semester, 4 credits.  
   Dillingham

262 Biological Chemistry Laboratory
   First semester, 1 credit.  
   Dillingham

263 Food Analysis
   Second semester, 3 credits.  
   Dillingham
COURSES PRIMARILY FOR GRADUATES

†302 Research in Organic Chemistry  
L. N. Bilger  
Continuous throughout year, hours and credits to be arranged.

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

313 Advanced Physical Chemistry Laboratory  
E. M. Bilger  
Continuous throughout year, 1 credit each semester.

315 Chemical Literature  
Staff  
Continuous throughout year, 1 to 3 credits each semester.

316 Advanced Quantitative Analysis  
Dillingham  
Credits to be arranged.

317 Advanced Organic Chemistry  
Payne  
Continuous throughout year, credits to be arranged.

318 Chemistry Research  
Staff  
Credits to be arranged.

320 Theoretical Organic Chemistry  
L. N. Bilger  
Continuous throughout year, 2 credits each semester.

350 Organic Analysis  
Payne  
Second semester, 3 credits.

400 Thesis Research  
Staff  
Credits to be arranged.

Economics and Business

Requirements for admission to candidacy:

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

(2) Oral examination covering previous work in the field upon successful completion of one semester of Economics 305-306.

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

COURSES FOR GRADUATES AND UNDERGRADUATES

ECONOMICS

223 History of Economic Institutions  
Cameron  
Continuous throughout year, 3 credits each semester.

250 Economic Problems of Far Eastern Countries  
Taylor  
First semester, 3 credits.

*251 Economic Problems of Europe  
Taylor  
Second semester, 3 credits.

*252 International Problems of the Pacific Basin  
Taylor  
First semester, 3 credits.

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

257 Banking  
Hoflich  
Second semester, 3 credits.

261 Public Finance  
Hoflich  
Second semester, 3 credits.

265 International Finance  
Taylor  
Second semester, 3 credits.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>270</td>
<td>Public Utilities</td>
<td>3</td>
<td>Cameron</td>
</tr>
<tr>
<td>273</td>
<td>Ocean Transportation</td>
<td>3</td>
<td>Cameron</td>
</tr>
<tr>
<td>276</td>
<td>Trusts and Industrial Combinations</td>
<td>3</td>
<td>Cameron</td>
</tr>
<tr>
<td>281</td>
<td>Labor Problems</td>
<td>3</td>
<td>Taylor</td>
</tr>
<tr>
<td>285</td>
<td>Theory and Control of Foreign Trade</td>
<td>3</td>
<td>Taylor</td>
</tr>
<tr>
<td>288</td>
<td>Risk Bearing and Speculation</td>
<td>3</td>
<td>Hoflich</td>
</tr>
<tr>
<td>291</td>
<td>Agriculture Economics</td>
<td>3</td>
<td>Taylor</td>
</tr>
<tr>
<td>296</td>
<td>Recent Economic Thought</td>
<td>3</td>
<td>Hoflich</td>
</tr>
</tbody>
</table>

**BUSINESS**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>250-251</td>
<td>Intermediate Accounting</td>
<td>2</td>
<td>Graham</td>
</tr>
<tr>
<td>255</td>
<td>An Analysis of Financial Statements</td>
<td>2</td>
<td>Graham</td>
</tr>
<tr>
<td>256</td>
<td>Income Tax Problems and Procedure</td>
<td>2</td>
<td>Graham</td>
</tr>
<tr>
<td>264</td>
<td>Principles of Business</td>
<td>3</td>
<td>Cameron</td>
</tr>
<tr>
<td>265</td>
<td>Corporation Finance</td>
<td>3</td>
<td>Hoflich</td>
</tr>
<tr>
<td>266</td>
<td>Investment and Investment Banking</td>
<td>3</td>
<td>Hoflich</td>
</tr>
<tr>
<td>267</td>
<td>Business Cycles and Business Forecasting</td>
<td>3</td>
<td>Hoflich</td>
</tr>
<tr>
<td>273</td>
<td>Economics of Advertising</td>
<td>3</td>
<td>Taylor</td>
</tr>
<tr>
<td>275</td>
<td>Technique of Foreign Trade</td>
<td>3</td>
<td>Taylor</td>
</tr>
<tr>
<td>276</td>
<td>Economics of Retail Merchandising</td>
<td>3</td>
<td>Taylor</td>
</tr>
<tr>
<td>280</td>
<td>Salesmanship and Sales Management</td>
<td>3</td>
<td>Taylor</td>
</tr>
<tr>
<td>291</td>
<td>Statistics</td>
<td>3</td>
<td>Hoflich</td>
</tr>
</tbody>
</table>

**COURSES PRIMARILY FOR GRADUATES**

**ECONOMICS**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>305-306</td>
<td>Seminar in General Economics</td>
<td></td>
<td>Cameron</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year. Maximum of 3 credits each semester.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>310-311</td>
<td>Seminar in International Economics and Trade</td>
<td></td>
<td>Hoflich</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year. Maximum of 3 credits each semester.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Requirements for admission to candidacy for the Master's 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 above, (4).

Graduate program: Courses in the education major to be selected from those listed below. A maximum of 10 credits may be earned toward the degree 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, or physical education.

Note: Courses offered in the Teachers College, other than those listed below, relating to the teaching of biology, vocational education, English, geography, music, and social science, may be counted as credit toward the education major only if the courses are numbered 200 or above and directly related to the thesis topic.

COURSES FOR GRADUATES AND UNDERGRADUATES

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; repeated second semester, 2 credits.

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

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

BUSINESS

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

400 Thesis Research
Credits to be arranged.

Staff
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>285-286</td>
<td>Elementary Education</td>
<td>Sayers</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 3 credits each semester.</td>
<td></td>
</tr>
<tr>
<td>291</td>
<td>Adult Education—Aims and Principles</td>
<td>Scott</td>
</tr>
<tr>
<td></td>
<td>Second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>293</td>
<td>Comparative Education</td>
<td>Gordon</td>
</tr>
<tr>
<td></td>
<td>First semester; repeated second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>294</td>
<td>Educational Sociology</td>
<td>Scott</td>
</tr>
<tr>
<td></td>
<td>First semester; repeated second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>295</td>
<td>History of Education in the United States</td>
<td>Gordon</td>
</tr>
<tr>
<td></td>
<td>First semester; repeated second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>296</td>
<td>History of Education in Hawaii</td>
<td>Wist</td>
</tr>
<tr>
<td></td>
<td>First semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>297</td>
<td>Hawaiian Educational History in Modern Times</td>
<td>Wist</td>
</tr>
<tr>
<td></td>
<td>Second semester, 2 credits.</td>
<td></td>
</tr>
</tbody>
</table>

**COURSES PRIMARILY FOR GRADUATES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>Reading and Research</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>First semester; repeated second semester, 1 to 3 credits.</td>
<td></td>
</tr>
<tr>
<td>340</td>
<td>Philosophy of Education</td>
<td>Sayers</td>
</tr>
<tr>
<td></td>
<td>First semester; repeated second semester, 4 credits.</td>
<td></td>
</tr>
<tr>
<td>345</td>
<td>Seminar in Philosophy of Education</td>
<td>Sayers</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>History of Education</td>
<td>Tanner</td>
</tr>
<tr>
<td></td>
<td>First semester; repeated second semester, 4 credits.</td>
<td></td>
</tr>
<tr>
<td>351</td>
<td>Advanced Educational Psychology</td>
<td>Livesay</td>
</tr>
<tr>
<td></td>
<td>First semester; repeated second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>361</td>
<td>Mental Deficiency and Abnormality</td>
<td>Smith</td>
</tr>
<tr>
<td></td>
<td>First semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>363</td>
<td>Educational Administration</td>
<td>Wist</td>
</tr>
<tr>
<td></td>
<td>Second semester, 3 credits.</td>
<td></td>
</tr>
<tr>
<td>371</td>
<td>Experimental Child Study</td>
<td>Smith</td>
</tr>
<tr>
<td></td>
<td>Second semester, 2 to 3 credits.</td>
<td></td>
</tr>
<tr>
<td>376</td>
<td>Seminar in Vocational Education</td>
<td>Armstrong</td>
</tr>
<tr>
<td></td>
<td>First semester; repeated second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>380</td>
<td>Seminar in Research and Thesis Writing</td>
<td>White</td>
</tr>
<tr>
<td></td>
<td>First semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>390</td>
<td>School Organization and Management</td>
<td>Wist</td>
</tr>
<tr>
<td></td>
<td>First semester; repeated second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>Thesis Research</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>Credits to be arranged.</td>
<td></td>
</tr>
</tbody>
</table>

**English**

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

1. A minimum of 18 semester hours of English including the general course in English literature and at least one advanced period course.
2. An oral or written examination or both.
3. The presentation of an acceptable statement of the purpose, scope, and proposed treatment of the thesis subject.

The graduate program: Courses in the major to be selected from those listed below. A maximum of six semester hours of credit toward the degree may be earned in French, Spanish, or Oriental literature; history, or education.
ENGLISH

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

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

254 Continental Drama
Continuous throughout year, 3 credits each semester.
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

*266 Special Studies 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
First semester, 3 credits.
Schwartz

275 The Age of Elizabeth
Second semester, 3 credits.
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
Continuous throughout year, 3 credits each semester.
Neil

288 The Twentieth Century
Continuous throughout year, 3 credits each semester.
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

COURSES PRIMARILY FOR GRADUATES

*300 Correction of Speech Defects, Advanced Course
Continuous throughout year, 2 credits each semester.
Henderson

302 Speech Clinic
Prerequisites 297, 298 and 300 or consent of instructor.
Continuous throughout year, 2-6 credits each semester.
Henderson

*310 The Development of Modern English
Credits to be arranged.
Schwartz
20

350 Seminar in English Literature
   Credits to be arranged. Schwartz
355 Directed Reading
   Credits to be arranged. Staff
360 Seminar in American Literature
   Credits to be arranged. Stroven
400 Thesis Research
   Credits to be arranged. Staff

Geography

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

(1) A minimum of 18 hours of undergraduate credit in geography including the basic course.

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

The graduate program: Courses in the major are to be selected from those listed below. A maximum of 6 semester hours may be earned in closely related courses in one of the following fields: geology, economics, history, political science, or sociology.

COURSES FOR GRADUATES AND UNDERGRADUATES

GEOGRAPHY

200 Field Geography
   Hours and credits to be arranged. 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

COURSES PRIMARILY FOR GRADUATES

300 Geography Seminar
   Credits to be arranged. Coulter, Jones
301 Seminar in Political Geography
   Credits to be arranged. Jones
400 Thesis Research
   Credits to be arranged. Coulter, Jones

History

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

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

(2) An oral examination covering previous work in this field, as soon as possible after first registration as a graduate student.

The graduate program: Courses in the major are to be selected from those listed below. All candidates for the Master's degree in history must have completed or be registered in History 310 before enrolling for the thesis. A maximum of six hours may be earned toward the degree in closely related advanced courses in either political science, economics, or history of education.
COURSES FOR GRADUATES AND UNDERGRADUATES

HISTORY

*204 Diplomatic and Colonial History of Modern Europe    Mehnert
Continuous throughout year, 2 credits each semester.

209-210 Cultural and Social History of England    Hunter
Continuous throughout year, 3 credits each semester.

*211 Constitutional History of England    Hunter
Second semester, 2 credits.

*212 History of Central Europe    Mehnert
First semester, 3 credits.

*213 History of Russia in Modern Times    Mehnert
Second semester, 3 credits.

214 History of German Culture and Thought since Frederick the Great    Mehnert
First semester, 3 credits.

216 History of Russian Culture and Thought in the 19th and 20th Centuries    Mehnert
Second semester, 3 credits.

218 Great Europeans    Mehnert
Continuous throughout year, 2 credits each semester.

225 History of China    Lee
Continuous throughout year, 3 credits each semester.

226 History of Japan    Kimura
First semester, 3 credits.

*241-242 History of the United States    Hunter
Continuous throughout year, 3 credits each semester.

*243 The New United States, 1890-1936    Hunter
Second semester, 3 credits.

244-245 Diplomatic History of the United States    Hunter
Continuous throughout year, 3 credits each semester.

*249 Representative Americans    Hunter
First semester, 2 credits.

250 The History of Early Civilization in the Far East    Sakamaki
First semester, 2 credits.

251 History of Thought in Japan    Sakamaki
Second semester, 2 credits.

252 Constitutional History of the United States    Hunter
First semester, 2 credits.

253-254 History of Hispanic America    Hunter
Continuous throughout year, 2 credits each semester.

276 History of the Hawaiian Islands    Kuykendall
First semester, 2 credits.

*277 The Pacific Region in Modern Times    Kuykendall
First semester, 3 credits.

285 Russia in Asia    Mehnert
First semester, 3 credits.

286 Russia in the Pacific    Mehnert
Second semester, 3 credits.

COURSES PRIMARILY FOR GRADUATES

310 Seminar in Historical Method    Hunter
First semester, 2 credits.
311 Seminar in American Diplomatic History Hunter
Second semester, 2 credits.

*313 Seminar in Historiography Hunter
Second semester, 2 credits.

315 Seminar in Japanese History Sakamaki
Continuous throughout year, 2 credits each semester.

318 Seminar: Russia in the Far East Mehnert
Continuous throughout year, 2 credits each semester.

327 Seminar in Hawaiian History Kuykendall
First semester, 2 credits.

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

1) A minimum of 18 semester hours of undergraduate credit in
   courses in political science and history relating to international
   affairs including a general course in international relations and
   either European or United States diplomatic history.

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

The graduate program: Courses are to be selected exclusively from those
listed below. At least 12 hours must be earned in courses primarily
for graduate students. All candidates in this field must have com·
pleted or be registered for History 310 before enrolling for the thesis.

COURSES FOR GRADUATES AND UNDERGRADUATES

POLITICAL SCIENCE

200 Problems of the Pacific Bachman
Second semester, 3 credits.

*258 Conduct of American Foreign Relations Hunter
First semester, 2 credits.

*261 International Law Bachman
Second semester, 3 credits.

*267 Principles and Problems of American Diplomacy Hunter
Second semester, 2 credits.

268 International Relations of the Far East Bachman
First semester, 3 credits.

HISTORY

*204 Diplomatic and Colonial History of Modern Europe Hunter
Continuous throughout year, 2 credits each semester.

244-245 Diplomatic History of the United States Hunter
Continuous throughout year, 3 credits each semester.

277 The Pacific Region in Modern Times Kuykendall
First semester, 3 credits.

ECONOMICS

252 International Economic Problems of the Pacific Basin Taylor
Second semester, 3 credits.

265 International Finance Taylor
Second semester, 3 credits.

*285 Theory and Control of Foreign Trade Taylor
First semester, 3 credits.
COURSES PRIMARILY FOR GRADUATES

POLITICAL SCIENCE
301 Seminar in Far Eastern International Relations          Bachman
Continuous throughout year, 2 credits each semester.
305 The Classics of International Law                    George
Second semester, 2 credits.
400 Thesis Research                                       Staff
Credits to be arranged.

HISTORY
310 Seminar in Historical Method                        Hunter
First semester, 2 credits.
311 Seminar in American Diplomatic History               Hunter
Second semester, 2 credits.

ECONOMICS
310-311 Seminar in International Economics and Trade     Taylor
Continuous throughout year, maximum of 3 credits each semester.

Nutrition

Requirements for admission to candidacy:
(1) A minimum of 18 semester hours of undergraduate credit in courses in food and nutrition, plus courses in general, organic, and biological chemistry.
(2) An oral qualifying examination upon successful completion of one semester of graduate work.

The graduate program: Courses toward the Master's degree in nutrition will ordinarily be selected exclusively from those listed below. However, with the permission of the candidate's committee a maximum of 6 semester hours may be earned in related courses in an allied field.

COURSES FOR GRADUATES AND UNDERGRADUATES

CHEMISTRY
263 Food Analysis                                        Dillingham
Second semester, 3 credits.

BOTANY
260 Medical Bacteriology                                Allen
First semester, 4 credits.

MATHEMATICS
280 Statistics                                           Hoy
First semester, 3 credits.

ZOOLOGY
260 Histology                                            Hamre
First semester, 3 credits.
262 Microtechnique                                       Hamre
First semester, 2 credits.

COURSES PRIMARILY FOR GRADUATES

CHEMISTRY
316 Advanced Quantitative Analysis                      Dillingham
Credits to be arranged.
HOUSEHOLD SCIENCE

349 Research in Nutrition
Miller, Bazore
Credits to be arranged.

350-351 Seminar in Nutrition
Miller
Continuous throughout year, 1 credit each semester.

400 Thesis Research
Miller
Credits to be arranged.

Philosophy

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

1. A minimum of 18 semester hours of undergraduate work in philosophy including a general course in the history of philosophy.

2. An oral examination covering previous work in this field to be taken immediately upon application for permission to take graduate work leading to the Master's degree.

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

COURSES FOR GRADUATES AND UNDERGRADUATES

PHILOSOPHY

250 Readings in History of Philosophy
Moore
Credits to be arranged.

252-253 Problems of Philosophy
Moore
Continuous throughout year, 3 credits each semester.

260-261 Idealism as a Philosophy
Moore
Continuous throughout year, 3 credits each semester.

270-271 Eastern Philosophies
Chan
Continuous throughout year, 2 credits each semester.

280 Logic and Scientific Method
Moore
First semester, 3 credits.

ORIENTAL STUDIES

281 Confucian Philosophy
Chan
First semester, 3 credits.

282 Taoist Philosophy
Chan
Second semester, 3 credits.

RELIGION

259 Ethics and Religion
Dunstan
Second semester, 2 credits.

COURSES PRIMARILY FOR GRADUATES

PHILOSOPHY

310 Seminar in Logic
Moore
Credits to be arranged.

321 Seminar in Comparative Philosophy
Chan and Moore
Credits to be arranged.

ORIENTAL STUDIES

302 Seminar in Buddhist Philosophy
Staff
Credits to be arranged.
POLITICAL SCIENCE
310 Seminar in History of Political Thought
First semester, 2 credits. George

EDUCATION
340 Philosophy of Education
First semester; repeated second semester, 3 credits. Sayers
345 Seminar in Philosophy of Education
Continuous throughout year, 2 credits each semester. Sayers

RELIGION
351 Philosophy of Religion
Second semester, 2 credits. Dunstan

Physics
Requirements for admission to candidacy for the Master's degree:
(1) A minimum of 18 semester hours of undergraduate credit in physics, including the basic course.
(2) An oral examination covering previous work in the field upon successful completion of one semester of graduate study.

The graduate program: Courses in physics are to be selected from those listed below. A maximum of six semester hours may be earned toward the Master's degree in advanced courses in mathematics or chemistry.

COURSES FOR GRADUATES AND UNDERGRADUATES

PHYSICS
255 Light
First semester, 3 credits. Ballard
261 Advanced Physics
Hours and credits to be arranged. Staff
263 Theoretical Mechanics
Hours and credits to be arranged. Eller
266 Sound
Hours and credits to be arranged. Eller
270 Heat
Hours and credits to be arranged. Eller, Ballard
275 Advanced Electricity and Magnetism
Hours and credits to be arranged. Eller
280 Modern Physics
Second semester, 3 credits. Ballard

COURSES PRIMARILY FOR GRADUATE STUDENTS
351 Theoretical Physics
Hours and credits to be arranged. Eller
353 Advanced Physical Optics
Hours and credits to be arranged. Ballard
355 Spectroscopy
Hours and credits to be arranged. Ballard
356 Theory of Spectra
Hours and credits to be arranged. Ballard
357 Kinetic Theory of Gases
Hours and credits to be arranged. Eller, Ballard
Social Work Training

Graduate study in social work training is offered for the purpose of making available professional courses to those interested in meeting the qualifications necessary for the practice of social work. At present no certificate or advanced degree is offered in this field.

COURSES PRIMARILY FOR GRADUATES

SOCIAL WORK TRAINING

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

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

*350 Public Welfare Administration
   Blackey
   One semester, 3 credits.

360 Personal Problems of Children
   Blackey
   One semester, 3 credits (Offered summer session 1938).

Sociology

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

(1) A minimum of 18 semester hours of undergraduate credit in sociology.

(2) An oral examination covering previous work in this field upon completion of one semester of graduate study.

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

COURSES FOR GRADUATES AND UNDERGRADUATES

SOCIOLOGY

*252 The Community
   Second semester, 3 credits.
   Reinecke

253 Rural Sociology
   Second semester, 3 credits.
   Lind

255 Social Pathology
   Second semester, 3 credits.
   Lind

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

257 The Family
   First semester, 3 credits.
   Reinecke

*268 Human Migrations
   First semester, 3 credits.
   Lind
*269 Personality and Culture
Second semester, 3 credits.

270 Population and Society
Second semester, 3 credits.

272 Collective Behavior
First semester, 3 credits.

*274 Social Change
Second semester, 3 credits.

276 Principles of Sociology
First semester, 3 credits.

290-291 Independent Study and Honors
Hours to be arranged.

COURSES PRIMARILY FOR GRADUATES

300-301 Advanced Reading
Credits to be arranged.

350-351 Seminar in Sociology
Continuous throughout year, 2 credits each semester.

400 Thesis Research
Credits to be arranged.

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 is desirable. The requirements in entomology are listed under the Graduate School of Tropical Agriculture.

(2) An oral examination covering previous work in zoology on completion of one semester of graduate study.

The graduate program: Courses in zoology are to be selected from those listed below. A maximum of 6 semester hours may be earned toward the Master's degree in advanced courses in chemistry or botany.

COURSES FOR GRADUATES AND UNDERGRADUATES

ZOLOGY

210 Zoology Seminar
Continuous throughout year, 1 credit each semester.

251 Cellular Biology
Second semester, 2 credits.

253 Parasitology
Second semester, 3 credits.

254 Insect Morphology
First semester, 2 credits.

255 Systematic Entomology
Second semester, 2 credits.

260 Histology
First semester, 3 credits.

261 Vertebrate Embryology
Second semester, 3 credits.
262 Microtechnique Hamre
First semester, 2 credits.
270 Systematic Zoology Edmondson
Continuous throughout year, credits to be arranged.
285 Evolution and Eugenics Miller
Second semester, 2 credits.

COURSES PRIMARILY FOR GRADUATES

ZOOLOGY

300 Research in Zoology Staff
Hours and credits to be arranged.
301 Principles of Applied Entomology Holdaway
Continuous throughout year, 3 credits each semester.
400 Thesis Research Staff
Credits to be arranged.

ENTOMOLOGY

†302 Research in Entomology Chapman, Carter
Hours and credits to be arranged.
†350 Insect Ecology Chapman
First semester, 2 credits.
†355 Insect Transmitted Diseases of Plants Carter
Hours to be arranged.

Graduate School of Tropical Agriculture

Candidates for advanced degrees in the Graduate School of Tropical Agriculture will ordinarily major in one of the following fields: (a) Entomology, (b) Genetics, (c) Plant Physiology, (d) Soil Science.

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

Undergraduate preparation

Entomology: Basic courses in botany, chemistry, physics, entomology and zoology; courses in comparative anatomy of vertebrates, agricultural and medical entomology, parasitology, histology, microtechnique, principles of genetics and physiology. The last five courses above, if not taken as an undergraduate, may be included in the graduate program. Additional undergraduate botany, either a course in systematic botany or a course in plant physiology, is desirable and may be required. Ability to read French or German is required of candidates for the Master's degree.

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.

Plant Physiology: For those who expect to continue graduate study beyond the Master's degree, the following undergraduate preparation is required: a major (30 semester hours) 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. For those who do not expect to continue beyond the Master's degree, the following are required: a major in botany, one year of organic chemistry, one year of physics
and 15-20 semester hours credit from among courses in tropical pomology, truck crop production, soils, sugar cane production, principles of genetics, pineapple production and general irrigation practice.

Soil Science: The Master of Science degree in Soil Science may be awarded by the faculty of the Graduate School of Tropical Agriculture in the specialized fields of soil chemistry, soil physics and soil bacteriology. Although certain basic requirements for admission to candidacy are common to each of the three specialized fields of study, some flexibility remains in the hands of the committee in charge of the candidate's work. The list of requirements for admission to candidacy for the Master of Science degree in soil science may be increased somewhat by the qualifying committee if the elected field of work warrants it, or if there is evidence of inadequate undergraduate preparation. Basic requirements for admission to candidacy for the Master of Science degree in soil science are as follows: 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).

Qualifying examination: Upon successful completion of one semester of graduate study.

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 advanced courses offered by the various departments of the University.

Persons pursuing graduate study in these fields beyond the Master's degree will be required to have an adequate knowledge of the sciences fundamental to their major field and will ordinarily register only for the courses listed below:

### BOTANY

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>303</td>
<td>Plant Pathology Seminar</td>
<td>Linford</td>
</tr>
<tr>
<td></td>
<td>First semester, 1 credit</td>
<td></td>
</tr>
<tr>
<td>304</td>
<td>Research in Plant Pathology</td>
<td>Linford</td>
</tr>
<tr>
<td></td>
<td>Hours and credits to be arranged</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>Research in Plant Physiology</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>Hours and credits to be arranged</td>
<td></td>
</tr>
<tr>
<td>351</td>
<td>Plant Physiology Seminar</td>
<td>Clements</td>
</tr>
<tr>
<td></td>
<td>Credits to be arranged</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>Thesis Research</td>
<td>Staff</td>
</tr>
</tbody>
</table>

### CHEMISTRY

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>302</td>
<td>Research in Organic Chemistry</td>
<td>L. N. Bilger</td>
</tr>
<tr>
<td></td>
<td>Hours and credits to be arranged</td>
<td></td>
</tr>
<tr>
<td>310</td>
<td>Seminar: Chemical and Physical Studies in Biological Fields</td>
<td>L. N. Bilger</td>
</tr>
<tr>
<td></td>
<td>1 credit. Hours to be arranged</td>
<td></td>
</tr>
<tr>
<td>320</td>
<td>Theoretical Organic Chemistry</td>
<td>L. N. Bilger</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
<td></td>
</tr>
</tbody>
</table>
ENTOMOLOGY

302 Research in Entomology  Chapman, Carter
Hours and credits to be arranged.

350 Insect Ecology  Chapman
First semester, 2 credits.

355 Insect Transmitted Diseases of Plants  Carter
Hours to be arranged.

400 Thesis Research  Staff

GENETICS

300 Seminar in Genetics  Collins
Hours to be arranged.

302 Research in Genetics  Collins
Hours and credits to be arranged.

400 Thesis Research  Staff

SOIL SCIENCE

302 Research in Soil Bacteriology, Soil  Allen, Wadsworth
Chemistry or Soil Physics
Hours and credits to be arranged.

350 The Nitrogen Cycle  Allen
First semester, 1 credit.

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

352 Bacterial Decomposition  Allen
First semester, 1 credit.

400 Thesis Research  Staff
Hours and credits to be arranged.

ORIENTAL INSTITUTE

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

1. A minimum of 328 grade points, or 128 credit hours as an undergraduate.

2. Undergraduate credit in courses in the history of two of the following countries: Japan, China, India. A minimum of six semester hours is required in each of these courses.

3. A reading knowledge of French or German.

4. A reading knowledge of Chinese, Japanese or Sanskrit (beginning with academic year 1938-39). Special courses are offered to satisfy this requirement.

5. A qualifying examination covering previous work in the field upon fulfillment of the above requirements. Students who cannot meet the language and history requirements will be unable to obtain the Master's degree in one year. An intensive course to prepare students to read elementary Japanese is offered during the 1938 summer session. Similar courses in both Japanese and Chinese are offered during the first semester of 1938-39.

With the assistance of his adviser, the student will work out an integrated program of study, selecting courses from those listed below. This program will be submitted to the qualifying committee for their approval at the time of admission to candidacy.

The following is a partial list of courses acceptable for graduate credit to be offered during 1938-39:
COURSES FOR GRADUATES AND UNDERGRADUATES

ORIENTAL STUDIES

221 Chinese Literature
Continuous throughout year, 2 credits each semester. Lee

223 Japanese Literature in Japanese
Continuous throughout year, 2 credits each semester. Staff

240 Japanese Literature in English
Continuous throughout year, 2 credits each semester. Staff

241 History of Oriental Religions
Continuous throughout year, 2 credits each semester. Lee

250-251 Chinese Literature in English
Continuous throughout year, 2 credits each semester. Lee

254-255 Chinese Philosophy and Art
Continuous throughout year, 2 credits each semester. Lee

256-257 Japanese Culture and Civilization
Continuous throughout year, 2 credits each semester. Kimura

263 Chinese Aesthetics
First semester, 3 credits. Chan

266 History and Appreciation of Chinese Music
First semester, 2 credits. Chao

267 History and Appreciation of Chinese Drama
Second semester, 2 credits. Chao

*281 Confucian Philosophy
First semester, 3 credits. Chan

282 Taoist Philosophy
Second semester, 3 credits. Chan

283 Buddhist Philosophy
First semester, 3 credits. Takakusu

284 The Influence of Buddhism on Japan
Hours and credits to be arranged. Takakusu

*291 Chinese Civilization
Continuous throughout year, 2 credits each semester. S. Y. Chen, Chao

293 Methods and Bibliography in Chinese Studies
First semester, 3 credits. S. Y. Chen

HISTORY

225 History of China
Continuous throughout year, 3 credits each semester. Lee

226 History of Japan
Continuous throughout year, 3 credits each semester. Kimura

229 Chinese and Occidental Cultural Relations
Continuous throughout year, 2 credits each semester. S. Y. Chen

235 History of Ancient China
Second semester, 3 credits. S. Y. Chen

250 History of Early Civilization in the Far East
First semester, 2 credits. Staff

251 History of Thought in Japan
Second semester, 2 credits. Staff

285 Russia in Asia
First semester, 3 credits. Mehnert
ANTHROPOLOGY
253 Peoples of Asia
First semester, 2 credits. Bowles

ECONOMICS
250 Economic Problems of Far Eastern Countries
First semester, 3 credits. Taylor

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

PHILOSOPHY
270-271 Eastern Philosophies
Continuous throughout year, 3 credits each semester. Chan

POLITICAL SCIENCE
266 International Relations of the Far East
Continuous throughout year, 2 credits each semester. Bachman

COURSES PRIMARILY FOR GRADUATES

ORIENTAL STUDIES
300 Seminar in Chinese Historical Literature
Hours and credits to be arranged. Lee
301 Seminar in Japanese Historical Literature
Hours and credits to be arranged. Kimura
302 Seminar in Buddhist Philosophy
Hours and credits to be arranged. Staff
303 Seminar in Chinese Philosophy
Hours and credits to be arranged. Chan
311 Seminar in Chinese Linguistics
Hours and credits to be arranged. Chao
316 Seminar in Chinese Cultural History
Hours and credits to be arranged. S. Y. Chen
400 Thesis Research
Hours to be arranged. Staff

HISTORY
315 Seminar in Japanese History
Continuous throughout year, 2 credits each semester. Kimura
318 Seminar in Russia in the Far East
Continuous throughout year, 2 credits each semester. Mehnert

PHILOSOPHY
321 Seminar in Comparative Philosophy
Hours and credits to be arranged. Chan, Moore

POLITICAL SCIENCE
301 Seminar in Far Eastern International Relations
Continuous throughout year, 2 credits each semester. Bachman

Related Courses

COURSES FOR GRADUATES AND UNDERGRADUATES

HISTORY
*277 The Pacific Region in Modern Times
First semester, 3 credits. Kuykendall
286 Russia in the Pacific
Second semester, 3 credits. Mehnert
ANTHROPOLOGY

250 The Polynesians
First semester, 2 credits. Keesing

252 Peoples of the Pacific
Second semester, 2 credits. Keesing

ENGLISH

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

PHILOSOPHY

260-261 Idealism as a Philosophy
Continuous throughout year, 2 credits each semester. Moore

PSYCHOLOGY

252 Racial Psychology
Second semester, 2 credits. Porteus

SOCIOLOGY

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

267 The Family
First semester, 3 credits. Reinecke

COURSES PRIMARILY FOR GRADUATES

SOCIOLOGY

350-351 Race and Culture Contacts in Hawaii
Continuous throughout year, 2 credits each semester. Lind

KILAUEA VOLCANO LABORATORY

The University maintains at Kilauea Crater facilities for research in Physical Geology, Geophysics and Volcanology by qualified graduate students and other research workers. Special opportunities are afforded during the summer months through the transfer of certain regular members of the University faculty to the Laboratory. Opportunities for graduate study, however, are not restricted to that period. Qualified graduate students and other research workers desiring to take advantage of the special facilities offered by the Laboratory should communicate with Director Thomas A. Jaggar at the Kilauea Volcano Laboratory, Hawaii National Park.