GRADUATE STUDY
IN THE
UNIVERSITY OF HAWAII

MARCH, 1936
University of Hawaii Library
University of Hawaii

CALENDAR
1936-1937

1936
June 29  Summer Session begins.
August 7  Summer Session closes.
Sept. 25-26  Registration, 29th Annual Session.
1937
Feb. 4  Formal class instruction closes.
Feb. 8-13  Mid-year examinations.
Feb. 18  Registration, second semester.
May 1  Last day for arranging date of final examination for the Master's degree.
June 14-19  Final examinations.
June 22  26th Annual Commencement.
June 28  Summer Session begins.

GRADUATE DIVISION

OFFICERS OF ADMINISTRATION

DAVID L. CRAWFORD, LL.D., 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.

GRADUATE COMMITTEES

The Graduate Committee: P. S. Bachman (Chairman), R. N. Chapman, G. M. Sinclair, O. N. Allen, C. J. Hamre, J. A. Tanner.
Committee on Graduate Study in Education: B. O. Wist (Chairman), T. M. Livesay, E. V. Sayers, J. A. Tanner, M. E. Smith.
Committee on Graduate Study in the Social Sciences: W. H. George (Chairman), F. M. Keesing, M. K. Cameron, A. W. Lind, T. E. Kelly.
GRADUATE STUDY IN THE UNIVERSITY OF HAWAI'I

The University of Hawaii offers good opportunities for graduate study and research in practically all of the usual fields of higher learning. These opportunities are exceptionally good in the sciences underlying tropical agriculture, and in social anthropology, Oriental studies, international relations and history of the Pacific and Far East, physical geology, marine biology, and education.

Peoples of the Occident, Orient and South Seas meet and mingle in the Territory, offering unique 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 volcanology, no superior natural laboratory exists, for through cooperative agreement with the National Park service the facilities of the Volcano Laboratory at Kilauea Crater are available to graduate students of physical geology. 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, con-
ducted 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.

However, opportunities for graduate work are not confined to those fields where local conditions offer unique 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. In this connection the special facilities for the study of Oriental languages and for the translation of documentary material should not be overlooked. Also, the central location of the Territory with respect to the Pacific area and the excellent library facilities afforded by the University, 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 at the University affords an excellent opportunity to acquire the basic knowledge necessary to their respective professions.

LIBRARIES

The University Library contains approximately 88,000 volumes and 287,000 pamphlets. Special emphasis has been placed upon the collection of research materials relating to the Pacific and Far East. Publications in Chinese, Japanese and Russian are catalogued in English, and translation facilities are obtainable.

Other libraries available to the graduate student are: the Library of Hawaii, a general public library containing much valuable material; the Library of the Institute of
Graduate Study

Pacific Relations, specializing in publications relating to the Pacific area; 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 the student of tropical agriculture. 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 on the Pacific. In 1936, a Seminar-Conference on Education in Pacific Countries, sponsored jointly by the University of Hawaii and Yale University, with the assistance of the Carnegie Corporation, is being held during the summer session. In addition, graduate work in physical geology is offered at the Volcano Laboratory on the Island of Hawaii and is available to qualified summer school students.

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 laid down by the Graduate Committee, of which the Director of the Graduate Division is chairman. For the purpose of correlating advanced study in allied fields and of cooperating with certain affiliated research institutions in offering graduate work, the following groups and schools have been established:

- Biological Science
- Education
- Literature
Physical Science  
Social Science  
Oriental Institute  
Graduate School of Tropical Agriculture

These departments and schools guided by the general rules and regulations of the Graduate Committee, 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 successfully pursue graduate work. The question of admission to candidacy should ordinarily be determined during the student's first term of residence. Graduate students not interested in earning an advanced degree and those working for certain teaching certificates issued by the Territorial Department of Public Instruction need not meet the requirement 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. However, in no case may the amount so accepted exceed one half of the credit hours requirement for the degree. 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 as assistants.

When a student first registers in the Graduate Division an advisor is appointed to assist him in the choice of courses. When he has been accepted as a candidate for a degree and a thesis topic chosen, a special committee is appointed to supervise the remaining portion of his work.
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 has been met. For example, a candidate with the Ed.B. degree would receive the M.Ed. and could only be awarded the M.A. degree if the undergraduate requirements for the A.B. degree had also been met.

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 register. 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 work are required for the Master's degree of which not less than six nor more than twelve hours shall be in research courses where the work done is directly connected with the preparation of the thesis.

All of the course work taken by the candidate should be in his major field of interest or in closely allied subjects. A reading knowledge of a foreign language may be required of a candidate at the discretion of the committee in charge of his work. 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 evidences of ability to do independent research and to arrive at logical conclusions. The thesis topic should be determined at the time that the student is admitted to candidacy and should be prepared under the supervision of a special committee, appointed for that pur-
pose. Arrangements for the final examination should be made with the Director of the Graduate Division at least one month prior to the end of the semester in which the candidate expects to receive the degree. At least one week prior to the date of the final examination, the completed thesis must be in the hands of the chairman of the committee in charge of his candidacy for final checking by members of this committee. The thesis should be accompanied by a short summary of the findings or conclusions. Instruction as to the form of the thesis may be obtained from the Director of the Graduate Division.

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 chairman of the examining committee must be deposited in the Library as the permanent property of the University, together with a fee to pay 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 governing candidates for Master’s degree, in so far as fees, registration, completion dates, etc., 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 under-
graduate 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 successfully 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 value 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 formally 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.

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 rates. Living accommodations in private homes near the University are available at moderate rates.

GRADUATE SCHOLARSHIPS AND FELLOWSHIPS

The University offers ten 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 for the Master's degree. In addition, graduate assistantships are open to holders of the above scholarships and pay from $250 to $750 a year. Recipients of these assistantships are assigned to duties as research and laboratory assistants, section leaders, or readers.

During the summer of 1936 the University is offering graduate scholarships covering all tuition and laboratory fees at the Volcano Laboratory at Kilauea Crater to students of physical geology.

A limited number of graduate scholarships are available to qualified graduate students in the Oriental Institute. A more detailed description of these scholarships may be obtained from the Director of the Oriental Institute.

Several research fellowships are offered by the Graduate School of Tropical Agriculture to qualified graduate students with the Master's degree or its equivalent. Application for these fellowships should be made to the Dean of the Graduate School of Tropical Agriculture.
COURSES FOR GRADUATE STUDENTS

The courses numbered 200-299 listed below are open to both undergraduate and graduate students. No graduate credit is allowed in these courses unless a grade of B or better is earned. Courses numbered 300 or over are designed primarily for graduate students. Courses other than those listed below will be accepted for advanced degrees only if the consent of the Graduate Committee is previously obtained. A more detailed description of the courses listed below may be found in the University Catalogue and Announcement of Courses.

Courses which will not be offered in 1936-37 are marked with an asterisk (*).

BIOLOGICAL SCIENCES

Botany and Bacteriology
Harold St. John, Ph.D., Plant Taxonomy
Oscar N. Allen, Ph.D., Bacteriology

Nutrition
Carey D. Miller, M.S., Foods and Nutrition

Zoology and Entomology
Charles H. Edmondson, Ph.D., Marine Biology
Christopher J. Hamre, Ph.D., Histology
Carl T. Schmidt, Ph.D., Entomology

In this group the graduate student will specialize in one of the following subjects: (1) Bacteriology, (2) Taxonomy and Ecology, (3) Embryology and Animal Histology, (4) Marine Biology, (5) Nutrition. Students desiring to specialize in Entomology or Plant Physiology will ordinarily register in the Graduate School of Tropical Agriculture. In addition to those listed below, a number of the courses in the School of Tropical Agriculture are open to graduate students in this group.

Botany

210 Botanical Seminar.
   Each semester, 1 credit each.

253 Plant Ecology.
   Second semester, 4 credits.

254 Advanced Taxonomy.
   First semester, 2 credits.
**Graduate Study**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>*258</td>
<td>Agricultural Bacteriology.</td>
<td>4</td>
<td>Allen</td>
</tr>
<tr>
<td>*260</td>
<td>Medical Bacteriology.</td>
<td>4</td>
<td>Allen</td>
</tr>
<tr>
<td>*263</td>
<td>Plant Pathology.</td>
<td></td>
<td>Allen</td>
</tr>
<tr>
<td>*265</td>
<td>Taxonomy of the Dicotyledons.</td>
<td>1</td>
<td>St. John</td>
</tr>
<tr>
<td>*267</td>
<td>Taxonomy of the Higher Dicotyledons.</td>
<td>1</td>
<td>St. John</td>
</tr>
<tr>
<td>*270</td>
<td>Physiology of Bacteria.</td>
<td></td>
<td>Allen</td>
</tr>
<tr>
<td>300</td>
<td>Botanical Research.</td>
<td></td>
<td>Staff</td>
</tr>
<tr>
<td>349</td>
<td>Research in Nutrition.</td>
<td></td>
<td>Miller</td>
</tr>
<tr>
<td>350-351</td>
<td>Seminar in Nutrition.</td>
<td></td>
<td>Miller</td>
</tr>
<tr>
<td>400</td>
<td>Thesis Research.</td>
<td></td>
<td>St. John, Allen</td>
</tr>
</tbody>
</table>

**Household Science**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>210</td>
<td>Zoology Seminar.</td>
<td></td>
<td>Zoological Staff</td>
</tr>
<tr>
<td>251</td>
<td>Cellular Biology.</td>
<td>2</td>
<td>Hamre</td>
</tr>
<tr>
<td>253</td>
<td>Parasitology.</td>
<td>3</td>
<td>Schmidt</td>
</tr>
<tr>
<td>254</td>
<td>Insect Morphology.</td>
<td>2</td>
<td>Schmidt</td>
</tr>
<tr>
<td>255</td>
<td>Systematic Entomology.</td>
<td></td>
<td>Schmidt</td>
</tr>
<tr>
<td>260</td>
<td>Histology.</td>
<td>2</td>
<td>Hamre</td>
</tr>
<tr>
<td>261</td>
<td>Vertebrate Embryology.</td>
<td></td>
<td>Hamre</td>
</tr>
<tr>
<td>262</td>
<td>Microtechnique.</td>
<td></td>
<td>Hamre</td>
</tr>
<tr>
<td>270</td>
<td>Systematic Zoology.</td>
<td></td>
<td>Edmondson</td>
</tr>
<tr>
<td>284</td>
<td>Theoretical Zoology.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>Research.</td>
<td></td>
<td>Zoological Staff</td>
</tr>
<tr>
<td>301</td>
<td>Principles of Applied Entomology.</td>
<td></td>
<td>Schmidt</td>
</tr>
<tr>
<td>400</td>
<td>Thesis Research.</td>
<td></td>
<td>Zoological Staff</td>
</tr>
</tbody>
</table>

* denotes courses in addition to those which are considered for the Master's. All courses except those indicated as staff are offered by the assigned professor(s).
University of Hawaii

EDUCATION

Benjamin O. Wist, M.A., Educational Administration.
Thayne M. Livesay, Ph.D., Educational Psychology.
Ephraim V. Sayers, Ph.D., Educational Philosophy.
Fred E. Armstrong, M.A., Agricultural Education.
R. Ray Scott, Ph.D., Adult Education.
Willis B. Coale, Ph.D., Education.
Madorah E. Smith, Ph.D., Educational Psychology.
Jesse A. Tanner, Ph.D., History of Education.
George P. Gordon, M.A., History of Education.

Education

251 Principles of Secondary Education. Livesay
   Second semester, 3 credits.
259 Child Psychology. Smith
   Second semester, 3 credits.
260 Statistical Method. Smith
   First semester, 3 credits.
261 Educational Measurement. Smith
   Second semester, 3 credits.
267 Psychology and Treatment of Exceptional Children Smith
   Second semester, 3 credits.
268 Mental Hygiene. Smith
   First or second semester, 2 credits.
280 The Kindergarten Curriculum. Weeber
   First semester, 3 credits.
282 The Primary Curriculum. Smith
   First semester, 3 credits.
285 The Elementary School Curriculum. Sayers
   First semester, 3 credits.
291 Adult Education. Scott
   Second semester, 2 credits.
293 Comparative Educational Practices. Wist
   First and second semesters, 2 credits each.
294 Educational Sociology. Scott
   First and second semesters, 2 credits each.
295 History of Education in the United States. Gordon
   First or second semester, 2 credits.
296 History of Education in Hawaii. Wist
   First semester, 2 credits.
300 Reading and Research. Staff
   Either semester, 1 to 3 credits.
340 Philosophy of Education. Sayers
   First and second semesters, 2 credits each.
345 Seminar in Philosophy of Education. Sayers
   First and second semesters, 2 credits each.
350 History of Education. Tanner
   First or second semester, 3 credits.
351 Advanced Educational Psychology. Livesay
   First or second semester, 2 credits.
Graduate Study

361 Mental Deficiency and Abnormality. Smith
First semester, 3 credits.
363 Educational Administration. Wist
Second semester, 3 credits.
371 Experimental Child Study. Smith
Second semester, 2 to 3 credits.
380 Seminar in Research and Thesis Writing. Livesay
First semester, 2 credits.
390 School Organization and Management. Scott
First or second semester, 2 credits.
400 Thesis Research. Staff
Credits to be arranged.

Special Courses
The following Teachers College courses may be taken for graduate credit only with permission of the candidate's committee and only where they are closely related to the field of study represented by the candidate's thesis.

Biology
236 Nature Study. Brown
First and second semesters, 2 credits each.
250 Nature Study. Brown
First semester, 2 credits.
251 Nature Study. Brown
Second semester, 2 credits.

Education
270 Agricultural Project Work. Armstrong
Second semester, 3 credits.
271 Principles of Vocational Education. Armstrong
Second semester, 3 credits.
272 Teaching Agriculture. Armstrong
First semester, 3 credits.
274 Methods of Teaching Vocational Agriculture. Armstrong
First semester, 3 credits.

English
237 English in the Secondary School. Coale
First and second semester, 2 credits each.
264 Creative English in the Elementary School. Coale
First semester, 2 credits.
265 Remedial English in the Elementary School. Coale
Second semester, 2 credits.

Geography
261 Occupational Geography. Jones
First and second semesters, 3 credits.
262 Hawaiian Geography. Coulter
First semester, 2 credits.

Music
251 Music for the Kindergarten and Primary Years. Kahananui
Second semester, 2 credits.
261 Music History to the Classical Period. Kahananui
Second semester, 2 credits.
262 Classicism and Romanticism in Music.  
First semester, 2 credits.  
Kahananui

263 Twentieth Century Music.  
Second semester, 2 credits.  
Kahananui

Social Science

251 Social Science in the Secondary School.  
Second semester, 2 credits.  
Gordon

271 History Materials for Children.  
First semester, 1 credit.  
Gordon

LITERATURE

Arthur L. Andrews, Ph.D., American Literature.
Irving O. Pecker, A.B., French and Spanish Literature.
Shao Chang Lee, M.A., Chinese Literature.
Charles H. Neil, M.A., English Literature.
Gregg M. Sinclair, M.A., Comparative Literature.
Laura V. Schwartz, Ph.D., English Literature.
Carl G. Stroven, M.A., American Literature.

Students in this field will major in English literature but may take as related or supporting work, courses in French, Spanish, or Chinese literature. Students desiring to specialize in Oriental literature should be enrolled in the Oriental Institute.

English

207 The Novel from Defoe to Hardy.  
First and second semesters, 3 credits each.  
Neil

208 English Prose and Poetry, 1830-1890.  
First and second semesters, 3 credits each.  
Neil

210 Directed Reading.  
First and second semesters, 2 credits.  
Schwartz

214 World Literature.  
First and second semesters, 3 credits each.  
Sinclair

*215 Studies in English Biographical Literature.  
Second semester, 3 credits.  
Neil

216 European Masters.  
First and second semesters, 3 credits each.  
Sinclair

240 American Literature.  
First and second semesters, 3 credits each.  
Stroven

242 Chief Elizabethan Dramatists (Exclusive of Shakespeare).  
First semester, 3 credits.  
Schwartz

252-253 Shakespeare.  
First and second semesters, 3 credits each.  
Schwartz

*254 Modern Poetry.  
Second semester, 3 credits.  
Schwartz

255 The Modern Novel.  
First semester, 3 credits.  
Schwartz

*263 English Poets of the Age of Romanticism.  
Second semester, 3 credits.  
Neil
267 Seventeenth Century. Second semester, 3 credits.
300 English Seminar. First and second semesters, 2 credits each.
400 Thesis Research. Hours and credits to be arranged.

French
252 Modern French Drama. First semester, 2 credits.
253 Advanced French Seminar. Hours and credits to be arranged.
260-261 Modern French Literature. Hours and credits to be arranged.

Spanish
250 Spanish Classics. First semester, 2 credits.
251 Advanced Spanish Seminar. Second semester, 2 credits.

Oriental Studies
221 Chinese Literature. First and second semesters, 2 credits each.
223 Japanese Literature. First and second semesters, 2 credits each.
240 Japanese Literature in English. First and second semesters, 2 credits each.
250-251 Chinese Literature in English. First and second semesters, 2 credits each.
300 Seminar in Chinese Historical Literature. Credits to be arranged.
301 Seminar in Japanese Historical Literature. Credits to be arranged.

ORIENTAL INSTITUTE

Gregg M. Sinclair, M.A., Director.
Shao Chang Lee, M.A., Chinese Language and History.
Thomas E. Kelly, Ph.D., Philosophy.
Paul S. Bachman, Ph.D., International Relations.
John W. Coulter, Ph.D., Geography.
Felix M. Keesing, D.Litt., Anthropology.
William H. Taylor, Ph.D., Economics.
Shunzo Sakamaki, M.A., Japanese History.

Arrangements are being made for Japanese, Chinese and Indian professors to join the above faculty of the Oriental Institute beginning with the academic year 1936-1937. The names of these scholars and their course offerings will be announced in a supplementary bulletin of the Oriental Institute.

Students in this department are required to have a knowledge of Japanese or Chinese or some other Oriental language.
Oriental Studies
223 Japanese Literature.
First and second semesters, 2 credits each.
240 Japanese Literature in English.
First and second semesters, 2 credits each.
241 History of Oriental Religions.
First and second semesters, 2 credits each.
250-251 Chinese Literature in English.
First and second semesters, 2 credits each.
254-255 Chinese Philosophy and Art.
First and second semesters, 2 credits each.
291 Chinese Civilization.
First semester, 2 credits.
300 Seminar in Chinese Historical Literature.
Hours and credits to be arranged.
301 Seminar in Japanese Historical Literature.
Hours and credits to be arranged.
400 Thesis Research.
Hours to be arranged.

History
202 Cultural History of Japan.
First and second semesters, 3 credits each.
225 History of China.
First and second semesters, 2 credits each.
227 Early History of Japan.
First semester, 3 credits.
228 History of Modern Japan.
Second semester, 3 credits.
229 Diplomatic History of Japan.
First and second semesters, 2 credits each.
277 The Pacific Region in Modern Times.
First semester, 3 credits.
315 Seminar in Japanese History.
First and second semesters, 2 credits each.

Anthropology
254 Peoples of Asia.
First semester, 2 credits.

Economics
250 Economic Problems of the Orient.
First semester, 3 credits.

English
214 World Literature.
First and second semesters, 3 credits each.

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

Philosophy
270-271 Eastern Philosophies.
First and second semesters, 3 credits each.
Graduate Study

Political Science
*266 International Relations of the Far East. Bachman
First and second semesters, 2 credits each.
301 Seminar in Far Eastern International Relations. Bachman
First and second semesters, 2 credits each.

PHYSICAL SCIENCES

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

Geology
Harold S. Palmer, Ph.D., Physical Geology.
Thomas A. Jaggar, Ph.D., Volcanology.

Mathematics
Ernest C. Webster, C.E.

Physics
Willard H. Eller, Ph.D.
Stanley S. Ballard, Ph.D.

In this group the advanced student may major in Chemistry, Physics or Physical Geology. Those students working in the latter field will devote the greater portion of their time to individual research at the Volcano Laboratory. Courses in Mathematics may be taken when related to the major field.

Chemistry
211 Physical Chemistry. Bilger
First and second semesters, 3 credits each.
212 Physical Chemistry Laboratory. Bilger
First and second semesters, 1 credit each.
213 Advanced Physical Chemistry Laboratory. Bilger
First and second semesters, 1 credit each.
216 Advanced Quantitative Analysis. Dillingham
First and second semesters, credits to be arranged.
217 Advanced Organic Chemistry. Payne
First and second semesters, credits to be arranged.
250 Organic Analysis. Payne
First Semester, 3 credits.
260 Biological Chemistry. Dillingham
First Semester, 3 credits.
261 Agricultural Chemistry. Dillingham
First semester, 4 credits.
262 Biological Chemistry Laboratory. Dillingham
First semester, 1 credit.
263 Food Analysis. Dillingham
Second semester, 3 credits.
Chemical Literature.  
First and second semesters, 1 to 3 credits each.

Chemistry Research.  
Credits to be arranged.

Thesis Research.  
Credits to be arranged.

Geology

Geology Seminar.  
Hours and credits to be arranged.

Physics

Light.  
First Semester, 3 credits.

Theoretical Mechanics.  
Hours and credits to be arranged.

Sound.  
Hours and credits to be arranged.

Heat.  
Hours and credits to be arranged.

Advanced Electricity and Magnetism.  
Hours and credits to be arranged.

Modern Physics.  
Hours and credits to be arranged.

Theoretical Physics.  
Hours and credits to be arranged.

Spectroscopy.  
Hours and credits to be arranged.

Kinetic Theory of Gases.  
Hours and credits to be arranged.

Thermodynamics.  
Hours and credits to be arranged.

Atomic Physics.  
Hours and credits to be arranged.

Thesis Research.  
Credits to be arranged.

Mathematics

Advanced Statistics.  
Second semester, 3 credits.

Mathematical Research.  
Credits to be arranged.

SOCIAL SCIENCES

Anthropology

Felix M. Keesing, D.Litt., Anthropology.

Economics and Business

Merton K. Cameron, Ph.D., Economics.
Matthew M. Graham, C.P.A., Accounting.
Harold J. Hoflich, Ph.D., Finance.
Graduate Study

Geography
John W. Coulter, Ph.D., Economic Geography.
Stephen B. Jones, Ph.D., Political Geography.

History
Shao Chang Lee, M.A., Chinese History.
Ralph S. Kuykendall, M.A., Hawaiian History.
Donald W. Rowland, Ph.D., American History.
Shunzo Sakamaki, M.A., Japanese History.

Philosophy
Thomas Kelly, Ph.D., Philosophy.

Political Science
William H. George, Ph.D., Comparative Governments.
Paul S. Bachman, Ph.D., International Relations.

Psychology

Sociology
Andrew W. Lind, Ph.D.
Clarence E. Glick, M.A.

Graduate students in this group will with the aid of the committee in charge of their candidacy map out a program of study emphasizing one of the following fields: (1) Cultural Anthropology, (2) Economics and Business, (3) Geography, (4) History of the Pacific and Far East, (5) International Relations, (6) Sociology.

By arrangements between the University and the Bishop Museum it is provided that there shall be reciprocity in the use of libraries, laboratories, collections and other facilities of research. Graduate students registered in the University of Hawaii will be allowed to carry on investigations under the guidance of members of the Museum staff, and work done in this way may be credited toward advanced degrees by the University. Advanced students will be allowed the use of the Museum facilities when working under proper direction, subject to such regulations as may be deemed expedient by the Director of the Museum.

Anthropology
*250 Old Polynesia.
First semester, 2 credits.

*251 Changing Polynesia.
Second semester, 2 credits.

*252 Peoples of the Pacific.
First semester, 2 credits.

*253 Pacific Peoples and Western Civilization.
Second semester, 2 credits.

254 Peoples of Asia.
First semester, 2 credits.
265 Primitive Society. Keesing
Second semester, 2 credits.

270 Race and Race Mixture. Staff
Hours and credits to be arranged.

300 Advanced Reading. Keesing
Hours and credits to be arranged.

310 Seminar in Anthropology. Staff
Hours and credits to be arranged.

400 Thesis research. Keesing
Credits to be arranged.

**Economics**

223 History of Economic Institutions. Cameron
First and second semesters, 3 credits each.

250 Economic Problems of the Orient. 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. Hoflich
Second semester, 3 credits.

*270 Public Utilities. Cameron
Second semester, 3 credits.

273 Ocean Transportation. Cameron
Second semester, 3 credits.

276 Trust and Industrial Combinations. Cameron
First semester, 3 credits.

281 Labor Problems. Taylor
First semester, 3 credits.

*285 Theory and Control of Foreign Trade. Taylor
First semester, 3 credits.

288 Risk Bearing and Speculation. Hoflich
First semester, 3 credits.

291 Agriculture Economics. Taylor
Second semester, 3 credits.

296 Recent Economic Thought. Hoflich
First semester, 3 credits.

305-306 Seminar in General Economics. Cameron
First and second semesters, maximum of 3 credits each.

310-311 Seminar in International Economics and Trade. Taylor
First and second semesters, maximum of 3 credits each.

315-316 Seminar in Finance. Hoflich
First and second semesters, maximum of 3 credits each.

400 Thesis research. Staff
Credits to be arranged.
Graduate Study

Business

250-251 Intermediate Accounting. Graham
First semester, 2 credits.
255 An Analysis of Financial Statements. Graham
Second semester, 2 credits.
256 Income Tax Problems and Procedure. Graham
Second semester, 2 credits.
260-261 Business Law. Kay
First and second semesters, 2 credits each.
*264 Principles of Business. Cameron
First semester, 3 credits.
*265 Corporation Finance. Hoflich
Second semester, 3 credits.
266 Investment and Investment Banking. Hoflich
First semester, 3 credits.
*267 Business Cycles and Business Forecasting. Hoflich
First semester, 3 credits.
273 Economics of Advertising. Taylor
Second semester, 3 credits.
275 Technique of Foreign Trade. Taylor
Second semester, 3 credits.
276 Economics of Retail Merchandising. Taylor
First semester, 3 credits.
280 Salesmanship and Sales Management. Taylor
Second semester, 3 credits.
291 Statistics. Hoflich
Second semester, 3 credits.
305-306 Seminar in Accounting. Graham
First and second semesters,
maximum of 3 credits each.
310-311 Seminar in Merchandising. Taylor
First and second semesters,
maximum of 3 credits each.
400 Thesis research. Staff
Credits to be arranged.

Geography.

200 Field Geography. Coulter
Hours and credits to be arranged.
252 Geography of North America. Coulter
First semester, 3 credits.
255 Geography of Asia. Coulter
Second semester, 3 credits.
262 Geography of Hawaii. Coulter
First semester, 2 credits.
263 Geography of Pacific Islands. Coulter
Second semester, 2 credits.
271 Political Geography. Jones
Second semester, 2 credits.
280 Advanced Meteorology. First and second semesters, 2 credits each.
University of Hawaii

300 Geography Seminar. Hours and credits to be arranged. Coulter, Jones
400 Thesis research. Credits to be arranged. Coulter, Jones

History

202 Cultural History of Japan. Sakamaki
First and second semesters, 3 credits each.
204 Diplomatic and Colonial History of Modern Europe. Bachman
First and second semesters, 2 credits each.
225 History of China. Lee
First and second semesters, 2 credits each.
227 Early History of Japan. Sakamaki
First semester, 3 credits.
228 History of Modern Japan. Sakamaki
Second semester, 3 credits.
229 Diplomatic History of Japan. Sakamaki
First and second semesters, 2 credits each.
*242-243 History of the United States. Rowland
First and second semesters, 3 credits each.
244 Diplomatic History of the United States. Rowland
First and second semesters, 3 credits each.
246 History of American Dependencies. Rowland
First semester, 2 credits.
*252 American Constitutional History. Rowland
First and second semesters, 2 credits each.
253 History of Hispanic America. Rowland
First and second semesters, 2 credits each.
*276 History of the Hawaiian Islands. Kuykendall
First semester, 2 credits.
277 The Pacific Region in Modern Times. Kuykendall
First semester, 3 credits.
310 Seminar in Methods of Research. Rowland
First semester, 2 credits.
311 Seminar in American History. Rowland
Second semester, 2 credits.
312 Seminar in European Diplomatic History. Bachman
First and second semesters, 2 credits each.
315 Seminar in Japanese History. Sakamaki
First and second semesters, 2 credits each.
327 Seminar in Hawaiian History. Kuykendall
First and second semesters, 2 credits each.
400 Thesis Research. Staff
Credits to be arranged.

Philosophy

252-253 Contemporary Problems of Philosophy. Kelly
First and second semesters, 3 credits each.
270-271 Eastern Philosophies. Kelly
First and second semesters, 2 credits each.
Graduate Study

280 Logic. First semester, 3 credits. Kelly
290 Ethics. Second semester, 3 credits. Kelly

Political Science

200 Problems of the Pacific. Second semester, 3 credits. Bachman
*256 American Political Parties. Second semester, 3 credits. Rowland
258 Conduct of American Foreign Relations. Second semester, 2 credits. Rowland
*261 International Law. First and second semesters, 2 credits each. Bachman
*266 International Relations of the Far East. First and second semesters, 2 credits each. Bachman
271 Government of American Territories and Dependencies. First and second semesters, 2 credits each. Bachman
301 Seminar in Far Eastern International Relations. First and second semesters, 2 credits each. Bachman
310 Seminar in the History of Political Theory. Second semester, 2 credits. George
400 Thesis Research. Credits to be arranged. Staff

Psychology

252 Racial Psychology. Second semester, 2 credits. Porteus
280 Social Psychology. First semester, 2 credits. Porteus
300 Reading or Research. First semester, 2 credits. Livesay

Sociology

*252 The Community. First semester, 3 credits. Lind
256 Race Relations in Hawaii. First semester, 3 credits. Lind
267 The Family. First semester, 3 credits. Glick
268 Human Migrations. First semester, 3 credits. Glick
269 Personality and Culture. Second semester, 3 credits. Glick
270 Population and Society. Second semester, 3 credits. Lind
272 Collective Behavior. First semester, 3 credits. Glick
*276 Principles of Sociology. Second semester, 3 credits. Glick
280-281 Individual Research in Sociology.  
First semester, credits to be arranged.  

282-283 Directed Reading in Sociology.  
First and second semester, 2 credits each.  

*285 The Sociology of the Frontier.  
Second semester, 3 credits.  

350-351 Race and Culture Contacts in Hawaii.  
First and second semester, 2 credits each.  

400 Thesis Research.  
Credits to be arranged.

GRADUATE SCHOOL OF TROPICAL AGRICULTURE
Royal N. Chapman, Ph.D., Dean.

Botanical Sciences
Oscar N. Allen, Ph.D., Bacteriology.
Maurice B. Linford, Ph.D., Plant Pathology.
Harold L. Lyon, Ph.D., Forest Botany.
Gordon T. Nightengale, Ph.D., Plant Physiology.
Christos P. Sideris, Ph.D., Plant Physiology.
Harold St. John, Ph.D., Taxonomy.

Chemistry and Soils
Leonora N. Bilger, Ph.D., Organic Chemistry.
Francis E. Hance, Ph.D., Soil Chemistry.
Oscar C. Magistad, Ph.D., Soil Chemistry.
Harold S. Palmer, Ph.D., Geology.
Harold A. Wadsworth, B.S., Soil Physics.

Entomology
Walter Carter, Ph.D., Entomology.
Cyril E. Pemberton, A.B., Entomology.
Olto H. Swezey, M.S., Entomology.
Carl T. Schmidt, Ph.D., Entomology.

Genetics
Julius L. Collins, Ph.D., Genetics.
Albert J. Mangelsdorf, Sc.D., Genetics.
Carroll P. Wilsie, Ph.D., Agronomist.

Students in this group will specialize for the Master's degree in one of the following fields: (a) Bacteriology, (b) Entomology, (c) Genetics, (d) Soil Science, (e) Plant Physiology. In addition to the courses listed below certain regular courses numbered 200 or over in the University may be taken for graduate credit by students in the Graduate School of Tropical Agriculture working for the Master's degree. However those taking work beyond the Master's degree will register for the courses listed below or for individual research conducted under the supervision of a
member of the faculty of the Graduate School of Tropical Agriculture.

**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>Lindford</td>
</tr>
<tr>
<td>304</td>
<td>Research in Plant Pathology.</td>
<td>Lindford</td>
</tr>
<tr>
<td>305</td>
<td>Absorption and Movement of Water in the Plant.</td>
<td>Beaumont</td>
</tr>
<tr>
<td>306</td>
<td>Mineral Nutrition.</td>
<td>Sideris</td>
</tr>
<tr>
<td>350</td>
<td>Research in Plant Physiology.</td>
<td></td>
</tr>
<tr>
<td>351</td>
<td>Plant Physiology Literature.</td>
<td></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 Chemistry.</td>
<td>L. N. Bilger</td>
</tr>
<tr>
<td>310</td>
<td>Seminar: Chemical and Physical Studies in Biological Fields.</td>
<td>L. N. Bilger</td>
</tr>
</tbody>
</table>

**Entomology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>302</td>
<td>Research in Entomology.</td>
<td>Chapman, Carter</td>
</tr>
<tr>
<td>350</td>
<td>Insect Ecology.</td>
<td>Chapman</td>
</tr>
<tr>
<td>355</td>
<td>Insect Transmitted Diseases of Plants.</td>
<td>Carter</td>
</tr>
</tbody>
</table>

**Genetics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>Seminar in Genetics.</td>
<td>Collins</td>
</tr>
<tr>
<td>302</td>
<td>Research in Genetics.</td>
<td>Collins</td>
</tr>
</tbody>
</table>

**Soil Science**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>Nutrient Availability in Soils.</td>
<td>Magistad</td>
</tr>
<tr>
<td>302</td>
<td>Research in Soil Bacteriology, Soil Chemistry or Soil Physics.</td>
<td>Allen, Magistad, Wadsworth</td>
</tr>
<tr>
<td>*350</td>
<td>The Nitrogen Cycle.</td>
<td>Allen</td>
</tr>
<tr>
<td>351</td>
<td>Soil Physics and the Relation of Soil Moisture to Plant Growth.</td>
<td>Wadsworth</td>
</tr>
<tr>
<td>*352</td>
<td>Bacterial Decomposition.</td>
<td>Allen</td>
</tr>
</tbody>
</table>