University of Hawaii.

Quarterly Bulletin.

Volume V, No.1  Catalogue & announcement of courses, 1926-1927.

"  " No.2  Register of Officers and Students.

"  " No.3  Error in numbering, Volume V contains but three numbers.

"  " No.4  Report of the Board of Regents to the Governor and the Legislature of 1927.
CATALOGUE
AND
ANNOUNCEMENT
OF COURSES
1926-1927

MAY, 1926

Published Quarterly by the
UNIVERSITY OF HAWAII
Honolulu

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EXAMINATION AND REGISTRATION DAYS
1926

Wednesday, September 8—Entrance Examinations.
   9 A.M.  English.
   2. P.M.  Elementary Algebra.

Thursday—    9 A.M.  Plane Geometry.
   2 P.M.  Trigonometry and Solid Geometry.

Friday—      9 A.M.  Psychological Examination, required of all first-year regular students.


Monday, September 13—Registration of previously enrolled students.

Tuesday, September 14—Registration of new students.

Wednesday, September 15—8 A.M.  Regular class work begins.
   11:30 A.M.  Address to new students by the President of the University.
CALENDAR
1926-1927

1926

June 7  
Fifteenth Annual Commencement.  
Monday

September 1  
Last day for receiving applications for admission.  
Wednesday

September 8-11  
Enterance Examinations.  
Wed.-Sat.

September 13-14  
Registration, Nineteenth Annual Session.  
Mon.-Tues.

September 15  
Instruction begins.  
Wednesday

October 1  
Last day for receiving applications from candidates for advanced degrees.  
Friday

November 11  
Armistice Day.  
Thursday

November 25-27  
Thanksgiving Recess.  
Thurs.-Sat.

December 20  
Christmas Recess begins.  
Monday

1927

January 3  
Work resumed.  
Monday

January 24-29  
Mid-year Examinations.  
Mon.-Sat.

February 1  
Registration, Second Semester.  
Tuesday

February 22  
Washington's Birthday.  
Tuesday

April 4  
Last day for receiving orations in Berndt Oratorical Contest.  
Monday

April 14  
Last day for receiving requests for examinations for advanced degrees.  
Thursday

April 15-16  
Good Friday Recess.  
Fri.-Sat.

May 6  
Fifth Annual Contest for Berndt Prize in Oratory.  
Friday

May 28-June 4  
Final Examinations.  
Sat.-Sat.

June 6  
Sixteenth Annual Commencement.  
Monday

September 1  
Last day for receiving applications for admission.  
Thursday

September 7-10  
Enterance Examinations.  
Wed.-Sat.

September 12-13  
Registration, Twentieth Annual Session.  
Mon.-Tues.
The Board of Regents

<table>
<thead>
<tr>
<th>Name</th>
<th>Date of Appointment and Reappointment</th>
<th>Present Term Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arthur G. Smith</td>
<td>Aug. 16, 1918 May 2, 1923 Apr. 30, 1928</td>
<td></td>
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<tr>
<td>Mary Dillingham Frear</td>
<td>Oct. 19, 1920 May 1, 1924 Apr. 30, 1929</td>
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<tr>
<td>Rev. Akaiko Akana</td>
<td>May 6, 1921 May 1, 1925 Apr. 30, 1930</td>
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<tr>
<td>Dr. Charles B. Cooper</td>
<td>Oct. 27, 1922 Apr. 30, 1927</td>
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</tbody>
</table>

Ex Officio

George II Brown, President of the Board of Agriculture and Forestry.

Arthur L. Dean, President of the University.

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Secretary: A. L. Dean
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1925-1926

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Professors Palmer, Adams, and Edmondson.

PHYSICAL EDUCATION AND MILITARY SCIENCE:
Colonel Clarke, Professor Keller, and Mr. Klum.

PUBLICITY AND PUBLICATIONS:
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RESEARCH:
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By act of its 1907 Legislature the Territory of Hawaii created an institution of higher education under the name of The College of Agriculture and Mechanic Arts of the Territory of Hawaii. This name was changed by a subsequent Legislature to The College of Hawaii. As its original name indicated, this College was a Land Grant College benefiting financially by the Second Morrill Act of 1890 and the Nelson Amendment of 1907. Being a Territory, Hawaii had no grant of lands under the original Morrill Act of 1862. The College received from the Federal Government fifty thousand dollars annually, applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction.

In its first years the College was housed in temporary buildings on the grounds of the McKinley High School, where the first classes were organized in the spring of 1908. Beginning with the fall of 1912 the College occupied the new permanent building in Manoa Valley, where some ninety acres had been set aside by the Territory for use of the College.

The first baccalaureate degrees were awarded in 1912, the first advanced degree, Master of Science, in 1914, and the first honorary degrees in 1919.

The programs of study were largely scientific and adapted to fit young men and women for practical work in applied science. With this College firmly established it was deemed wise to lay the foundations for a wider range of collegiate work in Hawaii by establishing a University whose charter should be sufficiently inclusive to provide for all future needs. The 1919 Legislature of the Territory of Hawaii therefore granted the following charter:

**ACT 203***

AN ACT TO ESTABLISH A UNIVERSITY OF HAWAII.

*Be it Enacted by the Legislature of the Territory of Hawaii:*

**SECTION 1.** There is hereby established a university of Hawaii which shall consist of the college of agriculture or mechanic arts heretofore known and designated as the College of Hawaii,

*Revised Laws of Hawaii, 1925, chapter 33, sections 400 to 408 inclusive.*
hereafter to be designated as the college of applied science, a college of arts and sciences and such other departments as may from time to time be established.

SECTION 2. The affairs of the University of Hawaii shall be under the general management and control of a board of regents consisting of seven members of which the president of the university, who shall act as secretary of the board, and the president of the board of agriculture and forestry shall be members ex officio, and the other five members shall be appointed by the governor of the Territory of Hawaii as by law provided. The regents shall be residents of the Territory of Hawaii, and the appointed members shall be appointed for terms of five years or the unexpired periods thereof in such manner that the term of one regent shall expire at the close of the 30th day of April each year. Such terms shall begin on the first day of May in each year, and the terms of the regents of the College of Hawaii as of June 30, 1919, in the order of their appointments, shall continue as terms of appointments as regents of the University of Hawaii, to expire immediately preceding the first day of May in each of the five years beginning with 1921.

SECTION 3. The board of regents shall have general management and control of the affairs of the university. It shall have the power to appoint a treasurer and such other officers as it deems necessary, and to require them to give bonds in such amounts as it may prescribe and in the form prescribed by law for bonds of public officers. It shall have power to purchase or otherwise acquire lands, buildings, appliances and other property for the purposes of the university and expend such sums of money as may be from time to time placed at the disposal of the university from whatever source. All lands, buildings, appliances and other property so purchased or acquired shall be and remain the property of the Territory of Hawaii to be used in perpetuity for the benefit of the university.

The official name of the board of regents shall be board of regents, University of Hawaii, and the board shall adopt and use a common seal by which all official acts shall be authenticated.

SECTION 4. The grants of moneys and the purposes of said grants authorized by the Act of Congress approved August 30, 1890, known as the Second Morrill Act, providing for the endowment and maintenance of colleges for the benefit of agriculture and mechanic arts, and by the Acts of Congress approved March 2, 1887, and March 16, 1906, providing for agricultural experiment stations in connection with colleges of agriculture and mechanic arts, and by any other Act or Acts of Congress for similar purposes, heretofore assented to in behalf of the College of Hawaii, are hereby reassented to in behalf of the college of applied science as an integral part of the University of Hawaii.
SECTION 5. The purposes of the university are to give thorough instruction and conduct researches in and disseminate knowledge of, agriculture, mechanic arts, mathematical, physical, natural, economic, political and social sciences, languages, literature, history, philosophy and such other branches of advanced learning as the board of regents may from time to time prescribe and to give such military instruction as the board of regents may prescribe and the federal government require. The standard of instruction shall be equal to that given and required in similar universities on the mainland of the United States, and upon the successful completion of the prescribed courses the board of regents is authorized to confer a corresponding degree upon all students who shall become entitled thereto.

SECTION 6. No person shall, because of sex, color or nationality, be deprived of the privileges of this institution.

SECTION 7. The faculties of the university shall be under the direction of a president who shall be appointed by the board of regents of which he becomes ex-officio a member. The board of regents shall appoint such deans, directors, other members of the faculties, and employees as may be required to carry out the purposes of the institution, and prescribe their salaries and terms of service, where such salaries and terms of service are not specifically fixed by legislative enactment, make and enforce rules governing sabbatical leaves, with or without pay, consistent with the practice of similar institutions on the mainland, and notwithstanding the laws of the Territory of Hawaii relating to vacations of the officers and employees of the territory.

SECTION 8. The board of regents shall have the authority to sue in its official name and shall be subject to be sued only in the manner provided for suits against the Territory of Hawaii.

SECTION 9. Moneys appropriated by the legislature for the University of Hawaii shall be payable by the territorial treasurer, upon warrants issued by the territorial auditor, upon vouchers approved by the board of regents. All moneys received by or in behalf of the board of regents of the university, other than those received from the United States government or other governments, shall be paid into the territorial treasury, and all such moneys are hereby appropriated for the use of the university. The board of regents shall cause to be kept suitable books of accounts, and shall annually submit to the governor, to be by him submitted to the legislature, a statement showing its receipts from all sources, and expenditures for all purposes.

SECTION 10. All obligations, rights, privileges, and property whatsoever belonging or appertaining to the board of regents of the College of Hawaii or the College of Hawaii are hereby transferred to the board of regents of the University of Hawaii and the University of Hawaii.
Section 11. Chapter 28, sections 330 to 336, inclusive, of the Revised Laws of Hawaii, 1915, are hereby repealed.

Section 12. This act shall take effect on July 1, 1920.

Approved this 30th day of April, A. D. 1919.

C. J. McCarthy,
Governor of the Territory of Hawaii.

ACT 128
(S. B. No. 99)

AN ACT TO AUTHORIZE THE BOARD OF REGENTS OF THE UNIVERSITY OF HAWAII TO ACT AS TRUSTEE ON BEHALF OF THE UNIVERSITY OF HAWAII.

Be it enacted by the Legislature of the Territory of Hawaii:

Section 1. The board of regents of the University of Hawaii is hereby authorized and empowered to receive, manage, and/or invest monies or other property, real, personal, or mixed, which may be given, bequeathed, devised, or in any manner received from sources other than the Legislature of the Territory of Hawaii or any federal appropriation for the purpose of the university, its improvement or adornment, or the aid or advantage of students or faculty, and in general, to act as trustee on behalf of the University of Hawaii for any of said purposes or objects.

Section 2. All income and profits received by the board of regents as in Section 1 provided, shall be paid into the territorial treasury, and is hereby appropriated for the uses and purposes specified in Section 1.

Section 3. The board of regents shall cause to be kept suitable books of account wherein shall be recorded each gift, the essential facts of the management thereof, and the expenditure of the income, and a statement of all trust funds shall be included in the annual report to the governor.

Section 4. This Act shall take effect upon its approval.

Approved this 28th day of April, A. D. 1925.

W. R. Farrington,
Governor of the Territory of Hawaii.
Pursuant to Act 203 of the 1919 Legislature *The University of Hawaii* was organized on July 1, 1920, with two colleges. With some changes the programs of study of the College of Hawaii were continued in the College of Applied Science, and a College of Arts and Sciences was organized with programs of study leading to the Bachelor of Arts degree. The control passed to the Board of Regents of the University of Hawaii consisting of the Board of Regents of the College as of June 30, 1920, with the addition of two *ex officio* members, the President of the Board of Agriculture and Forestry and the President of the University.

**The Psychological and Psychopathic Clinic**

Act 140 of the legislative session of 1921* provided for the establishment of a psychological and psychopathic clinic under the management and control of the board of regents of the University. The purposes of the clinic are to make examinations of persons at the request of the courts, industrial schools, board of health, department of public instruction and other public institutions and organizations, and, under proper regulation, at the request of private institutions and organizations, parents or guardians. In addition the clinic is conducting investigations in the field of psychology.

**The Waiakea Experiment Station**

Under the provisions of Act 191 of the 1921 session of the legislature, an experiment station has been established at Waiakea, Hawaii. A tract of over 90 acres was reserved for the purposes of an experiment station in the laying out of the homesteads at Waiakea. The greater part of the area is now in cane experiments. Diversified crops and farm animals also form an important part of the work of the station.

**Experiment Station of the Association of Hawaiian Pineapple Canners**

The Association of Hawaiian Pineapple Canners has placed its experiment station under the care and management of the University. The agricultural experimentation centers in Wahiawa, where a considerable tract of land and a number of buildings are devoted to experimental work. The botanical, pathological, and chemical investigations are handled at the Uni-
versity, partly in Gartley Hall and partly in a building erected by the Association.

LOCATION AND BUILDINGS

The University, advantageously situated in Manoa Valley, one of the most attractive of Honolulu's residential districts, is about two and one-half miles from the business center, and but a short walk from the Manoa Valley car-line.

Of the ninety acres which comprise the University grounds, about thirty acres are used for campus purposes and sixty for the farm. Of the latter some twenty-two are planted to crops and several large fields are used for pasturage. At the rear of the grounds flows the Manoa Stream, which furnishes adequate water for irrigation and experimental studies in irrigation, and may be made to provide for work in hydraulics.

The J. P. Cooke athletic field provides facilities for football, baseball and track athletics. Four asphalt tennis courts have also been provided. Through the enterprise of the students in the fall of 1920 a fund was raised for the construction of a swimming pool. A 25-yard pool, and locker buildings for men and women are available for students of the University.

Hawaii Hall, the first of the University buildings, is of reinforced concrete, three stories in height, and contains some sixty rooms, used as class rooms, offices and laboratories, and the administrative offices. Gartley Hall, the new fireproof building for chemistry, physics, and sugar technology, contains the laboratories, classrooms, and offices for those departments. The library building, completed in 1925, is also of reinforced concrete construction and equipped with modern library facilities. The psychological clinic has rooms in this building and a number of the members of the Faculty have their offices there. A smaller concrete building houses the laboratory for experimental engineering. The departments of botany and military science are housed in wooden buildings. A dormitory for men with rooms for twenty-eight students, a dormitory accommodating sixteen girls and a matron, and a dining hall are located on the campus.

The Legislature of 1919 placed the Honolulu Aquarium under the care of the University of Hawaii. The Charles M. Cooke Estate provided funds for the erection of a laboratory for marine zoology in connection with the Aquarium. Laboratory classes in zoology are held in this seaside building, which is also equipped for research in marine biology.

On the farm are four buildings for dairy purposes, a piggery, poultry houses, horse stable, tool shed, and six employees' cottages. At Kaimuki there is a small astronomical observatory. A more detailed account of the equipment of the buildings and laboratories is given under the head of Courses of Instruction.
By arrangement 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.

LIBRARY

The Library now contains about 38,100 volumes. In addition there are on the shelves about 104,400 pamphlets, many of them bulletins of agricultural experiment stations and of the various departments of the Federal Government. The Library is by law constituted a depository for all Government publications.

Reading rooms are maintained, wherein may be found local and mainland daily papers, the leading literary magazines and reviews, and a great number of technical and scientific periodicals.

Both the Library and the Reading Rooms are open to the public; and persons complying with the Library regulations may draw out books for home use.

GENERAL INFORMATION

PURPOSES AND STANDARDS

As required by Section 5 of the act of establishment the University is devoted both to instruction and research in the various fields of knowledge and is committed to the maintenance of the recognized standards of American universities.

That these standards may be maintained the requirements for admission of regular students to the University are set as high as those of similar institutions on the mainland. Special students must meet the same requirements except that those of mature age who have not the required preparatory school education may be accepted for limited work upon presenting satisfactory evidence of such previous training as manifestly fits them to pursue the desired courses.

No student with entrance conditions can be registered as a Sophomore, none with Freshman conditions as a Junior, and none with Sophomore conditions as a Senior.
The year’s work is divided into two semesters of eighteen weeks each. Recognition of work done is given in terms of credits, a credit generally being the equivalent of three hours per week spent in the preparation and recitation of a lesson, or in the field or laboratory. The exact division of this time, however, is generally left to the professor in charge.

**GRADE POINTS**

A record is kept of grade points, as well as of grades and semester hours.

Grade points will be determined as follows: For each semester hour 3 grade points will be granted when the grade is 90 or above; 2 grade points when the grade is 80-89; 1 grade point when the grade is 70-79. Grades of 60-69 will carry credit for semester hours, but not for grade points.

Grade points will be computed in all courses in which grades are reported, including Military Training and Physical Education.

A student shall not be entitled to grade points for grades received upon re-examination after being conditioned in any subject.

Students entering as undergraduates with advanced standing will not be given grade points upon work done elsewhere; but on work done here must gain grade points in the same proportion to credit hours required for graduation as is demanded of other students.

*To graduate from the University of Hawaii, the student must have gained a minimum of 136 grade points, of which at least 69 must be gained in the last half of the course.*

**CLASSIFICATION OF STUDENTS**

The University of Hawaii recognizes five classes of students:

1. Regular undergraduate students in either of the Colleges.
2. Special students in either of the Colleges.
3. Graduate students.
4. Extension students.
5. Auditors.

Regular students are those who having met the requirements for admission are pursuing a course of study leading to a bachelor’s degree in conformity with the regulations of either of the Colleges.

Special students are those who are working for credits, but not following one of the programs of work leading to a degree.
Tuition and Fees

Graduate students are those who have received a degree from one of the Colleges of this University or some other institution of equal standing and are registered for an advanced degree. Extension students are those who are enrolled in extension classes.

Auditors. A limited number of auditors will be admitted to those courses designated in the Catalogue by an asterisk (*). Persons desiring the privilege of attending classes as auditors will make application to the Registrar and if the application is granted will pay the usual fee in the course and be issued an auditor's card.

Tuition and Fees

Tuition in the University is free to residents of the Territory. The term "resident" is defined as follows:

1. Any person who has resided continuously in the Territory of Hawaii for at least one year prior to the registration day of any semester, except that persons, other than those described in paragraphs 2 and 3 below, who come to Hawaii for the purpose of attending the University, may not acquire residence while they are in attendance at the University, unless they become voting citizens of the Territory of Hawaii.

2. Any person, one or both of whose parents is a citizen of the Territory of Hawaii.

3. Any person who is in the military or naval service of the United States, or whose father is in such service.

To others than residents of the Territory the tuition is $25.00 per semester for regular students, or $2.00 per credit per semester for part time students.

A registration fee of $5.00 per semester is charged for all regular students and special students registering for 10 or more credits; others are charged at the rate of 50 cents per credit. The use of the swimming tank is free to all students and those registering for ten or more credits may have locker space assigned to them without charge. Persons registering as candidates for advanced degrees are charged a matriculation fee of $5.00. Laboratory fees and deposits are indicated under descriptions of courses. A graduation fee of $5.00 is charged to all persons receiving degrees to cover cost of diplomas.

A Late Registration Fee of $1.00 is required of all students who register later than the announced registration days, and a fee of one dollar is charged for each change of schedule made after the two-week interval following the date of registration.

A Reinstatement Fee of $5.00 will be charged on registration of any students who shall have withdrawn without securing either an honorable dismissal or a leave of absence.
A fee of one dollar is charged students for each copy of transcript of record after the first such copy has been issued. Charges are made for special examinations given at times other than those regularly announced.

All fees must be paid as a part of registration and no registration card will be finally accepted until it is endorsed showing payment.

No student shall be permitted to register until all outstanding indebtedness to the University has been liquidated, unless special permission has been obtained from the President or Dean. Students unable to make full payment should have the necessary forms properly signed prior to payment of fees in the Business Office. Old bills must be paid before the designated registration days.

Apparatus lost or destroyed is charged at market prices. Students whose breakage exceeds the deposit will pay the difference before receiving credit for the course taken.

The use of steel hook lockers may be secured from the Business Office by making a deposit of $1.75, seventy-five cents of which will be refunded upon return of the key.

DORMITORIES AND DINING HALL

The dormitory for men accommodates twenty-eight students. There are four suites consisting of two bedrooms and a study, each accommodating four men, one double room, ten single rooms, a general living room, and lanais. Bookshelves and dressers are built in, and beds are provided. Other furniture will be supplied by the occupants. Each student must bring a pillow, four single bed sheets, two pillow cases, blankets, and counterpane marked with his name and room number. The bed linen will be deposited with the caretaker. The room rent includes the laundry of the bed linen and the care of the room.

The dormitory for women accommodates sixteen girls and a matron. There are eight single and four double rooms, all connected with bathrooms provided with hot and cold water. The arrangements as to furniture and bedding are the same as in the men’s dormitory, but the women are required to take part care of their rooms.

A dining and cafeteria service is conducted by the University. All meals at noon are on the cafeteria plan; the service at breakfast and dinner is table d’hote. A charge of $200 per semester, one half payable at registration and one half at the middle of the semester, is made for room and board; this includes an allowance of 35 cents per day for cafeteria service six days per week. Only two meals are served on Sundays.
Requirements for Admission

Physical Education and Military Drill

Women. All regular students and all special students carrying eight or more credits are required to take physical education, unless excused on account of physical disability.

Men. All physically fit male Freshmen and Sophomores of American citizenship in regular standing in the University, and first and second year special students carrying eight or more credits, are required to take military training. A senior unit of the Reserve Officers' Training Corps is located at the University. The advanced course leading to a commission is elective.

The University Y. M. C. A.

The University Y. M. C. A. is an association of Christian students and faculty men who have organized in order to develop Christian character among the students and afford opportunity for expression of the spirit of brotherhood through the various student activities.

Fitting in naturally with the academic, social and athletic phases of the University, the Association definitely promotes the moral and spiritual aspect of student life, on and off the campus. Through the University of Hawaii Y.M.C.A. the students are affiliated with the North American Student Movement and the World Christian Student Federation with a membership of over 200,000.

Requirements for Admission

The requirements for admission in the two undergraduate Colleges are uniform.

Admission of Regular Students

1. Time of application for admission:
   Application for admission must be filed not later than September 1. Later applications will not be considered unless it can be shown to the satisfaction of the Entrance Committee that delay was unavoidable.

2. All applicants for entrance to regular standing are required to take a psychological examination.

3. Applicants will be given matriculation permits:
   (a) On the presentation of a school record showing that the candidate has completed 15 units of high school work in approved subjects with an average grade of 80% or better. Students applying in this group who fail seriously in the psychological examination will not be admitted. These 15 units must include 3 units in English in which the average grade is at least 80%, and to be admitted to an engineering course the candidate must present 3½ units of mathematics with an average grade of 80% or over.
(b) On the presentation of a school record showing that the candidate has passed in 15 units of high school work in approved subjects and the creditable passing of the above-mentioned psychological examination.

A statement issued by the College Entrance Examination Board, or by an officer of the University of Hawaii certifying that a candidate has passed an examination in any subject will be accepted as an equivalent to an 80% grade given by a preparatory school in the same subject. The eligibility for such examinations at the University of Hawaii shall be determined by the Entrance Committee and the officer concerned.

A unit signifies the satisfactory completion of a course of study pursued for a full school year, with five recitations per week of not less than 45 minutes each, or the equivalent laboratory or shop exercises.

The principal of the preparatory school attended by the student will be requested to submit for each applicant answers to a printed questionnaire. The questions asked will deal with the student’s character, ability, preparatory school activities, and the principal’s opinion of the probable success of the student in college.

4. Students may be admitted without examination by transfer from another college or university. Students thus transferring must present an official statement of the studies offered for admission, of the studies pursued in college and the grade received in each, and also a certificate of honorable dismissal.

Persons of some maturity who have had experience that manifestly prepares them for college work may be given entrance credit for such work. Just what forms of work will be given credit and just how many credits will be granted cannot be stated in advance; but each case will be passed upon individually.

The University of Hawaii desires to make its requirements for admission as flexible as possible without lowering its standards. It does not wish to debar properly qualified students by setting up arbitrary requirements, nor does it wish to dictate to the secondary schools what shall be the precise nature of their courses. The only end which is kept in view is that the entering students shall be prepared to take up their more advanced courses successfully. Schools that certify pupils unqualified to do college work will not be regarded as accredited schools, and their certifications will not be accepted.
Requirements for Admission

In general, the University does not stipulate what studies shall be offered in satisfying entrance requirements. To this general principle there are, however, two important exceptions.

No candidate will be admitted to regular standing in any course who does not offer the following: 3 units in English; 2 units in Mathematics.

Candidates desiring to study mathematics in the University must offer at least 2½ units in mathematics, and those desiring to enter the course in Engineering must offer 3½ units in mathematics.

In this connection, attention is called to the rule that no person will be admitted as a special student who is under the age of 21 years, unless that person shall fully satisfy the entrance requirements for regular standing. It will be seen that no person under the age of 21 will be admitted either as a regular or as a special student who does not offer at least 3 units in English and 2 units in mathematics.

Candidates expecting to study engineering are strongly urged to begin the study of both physics and mechanical drawing while in preparatory school. Candidates offering mechanical drawing as an entrance unit will be required to submit the plates drawn by them in the preparatory school. They will be placed in a special section in the class in mechanical drawing, and permitted to begin at once on the more advanced work.

Candidates offering freehand drawing and perspective must submit drawings made in the preparatory school.

Students wishing to enter an advanced course in one of the modern languages must offer at least 2 units in that language. Students offering two or more units in a modern language will not be permitted to register in the elementary course in that language.

Students entering the College of Arts and Sciences should note that they must have completed French 101, Spanish 101, or an equivalent, by the end of the sophomore year; or Chinese 200, Japânese 200, Hawaiian 200 or an equivalent, by the end of the junior year. Students who fail to meet this requirement will not be allowed credit toward graduation for a language course taken later to make up this deficiency.

Subjects in the following two groups are given for the guidance of students in planning high school work.
Requirements for Admission

GROUP A

From Group A at least 10 units should be offered.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Subject</th>
</tr>
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<tbody>
<tr>
<td>English</td>
<td>Physics</td>
</tr>
<tr>
<td>*Latin</td>
<td>Chemistry</td>
</tr>
<tr>
<td>*Greek</td>
<td>Botany</td>
</tr>
<tr>
<td>*French</td>
<td>Zoology</td>
</tr>
<tr>
<td>*German</td>
<td>Physiology</td>
</tr>
<tr>
<td>*Hawaiian</td>
<td>General Science</td>
</tr>
<tr>
<td>*Spanish</td>
<td>Physical Geography</td>
</tr>
<tr>
<td>*Oriental Languages and</td>
<td>Ancient History</td>
</tr>
<tr>
<td>Literature</td>
<td>General History</td>
</tr>
<tr>
<td>Algebra</td>
<td>English History</td>
</tr>
<tr>
<td>Plane Geometry</td>
<td>U. S. History</td>
</tr>
<tr>
<td>Solid Geometry</td>
<td>Civil Government</td>
</tr>
<tr>
<td>Plane Trigonometry</td>
<td></td>
</tr>
</tbody>
</table>

GROUP B

From Group B a total of five units only will be accepted as indicated.

Agriculture, maximum allowed, 2 units; 10 periods per week for one year equal 1 unit.

Commercial Subjects.

- Bookkeeping, maximum allowed, 2 units.
- Typing, maximum allowed, 1 unit; ½ unit for 5 hours per week for one year.
- Shorthand, maximum allowed, 1 unit.
- Commercial Law, maximum allowed, 1 unit.
- Commercial Arithmetic, maximum allowed, 1 unit; not allowed to count as one of the two required units in entrance mathematics.
- Commercial Geography, maximum allowed, 1 unit.
- Office Management, maximum allowed, 1 unit.

Domestic Art, Domestic Science, Home Management, maximum allowed, 2 units; 10 periods per week for one year equal 1 unit.

- Drawing, Freehand or Mechanical, maximum allowed, 1 unit each; 10 periods per week for one year equal 1 unit. Drawings must be submitted for approval before credit is granted.
- Economics, maximum allowed, ½ unit.
- Manual Training (Shopwork), maximum allowed, 2 units; 10 periods per week for one year equal 1 unit.
- Sociology (Social Problems), maximum allowed, ½ unit.

One unit of credit in Public Speaking, Commercial English, or Journalism will be allowed if the subject has been taken for a full year, five periods a week, and the 4th year of academic English is not offered.

*Entrance credit for languages will not be granted unless at least two units in some one language are offered.
Admission of Special Students

In all courses the work of the Freshman year has been planned so as to permit of an easy transition from school to college. The only prescribed studies that demand prerequisites are mathematics and English.

Admission of Special Students

Candidates will be admitted as special students either (a) by fully satisfying the requirements for admission as a regular student, or (b) by filing with the Committee on Entrance satisfactory evidence of having attained the age of 21 years and of having sufficient training to carry on the work desired.

No person, however, shall be admitted as a special student before his class in a secondary school has been graduated, except by special permission of the University Faculty.

Admission of Graduate Students

The requirements for admission as a graduate student are stated in conjunction with the requirements for receiving an advanced degree.

Degrees

Baccalaureate Degrees

On satisfactory completion of a regular course in the College of Applied Science a student is granted the degree of Bachelor of Science (B.S.), the diploma designating the course which has been pursued. The degree of Bachelor of Arts (B.A.) is granted upon the satisfactory completion of a regular course in the College of Arts and Sciences.

The University of Hawaii will permit the substitution of the first year in an approved professional school for the fourth year of the University course; and will, upon the satisfactory completion of three years of a University course and one year in an approved professional school, grant the degree of B.S. or B.A., according to the course pursued.

Candidates presenting advanced credits from other institutions will be required to do, as a minimum, the equivalent of a year's work in residence at the University of Hawaii in order to receive a Bachelor's degree.

Advanced Degrees

Special attention is directed to the unusual advantages of Hawaii for research in botany, entomology, marine zoology, and certain phases of geology. The great variations of elevation, rainfall, and temperature to be found within short distances pro-
vide remarkable conditions for ecological studies. The presence of active and extinct volcanoes, lava flows of many ages, and unique conditions of erosion provide numerous interesting geological problems. The character of the population and the geographical situation of the Hawaiian Islands make this a field of exceptional interest for work in the social and economic sciences.

Advanced students from other institutions and investigators desiring to study special problems, are invited to make use of the facilities of the University of Hawaii for study and research.

The advanced degree of Master of Science (M.S.) or Master of Arts (M.A.) will be granted to Bachelors on the satisfactory completion of advanced work for which their previous education has laid the necessary foundation.

The student must also present an acceptable thesis and pass the required examinations.

The degree of Civil Engineer (C.E.) will be granted to Bachelors of Science who shall have completed the corresponding undergraduate course at this institution, upon the completion of two years of practical experience in their chosen profession, the presentation of a satisfactory paper upon some topic of interest connected with their work, the completion of assigned problems, and the passing of the required examinations.

To be accepted as a candidate for an advanced degree, the applicant must be a graduate of the University of Hawaii or of some other institution of equal standing. The application should be made in writing to the Committee on Graduate Work not later than October 1 and should be accompanied by transcript of record issued by the institution from which the applicant has received his bachelor's degree. In case the amount of undergraduate work is deemed insufficient, the applicant, if accepted, may be required to take other undergraduate courses.

A full time graduate student must ordinarily work under the direction of a special committee for at least a year in residence. Part time graduate students, teachers, etc., will, ordinarily, be required to offer at least two academic years of work, together with full time work in one summer vacation (preferably the intervening one) under the direction of the University of Hawaii; or to offer not less than three academic years of work, not including work in the summer vacation, before receiving a master's degree. It is expected that the work done for the master's degree will require at least 1600 actual working hours.

In general, work for the master's degrees may not be done in absentia. Graduates of the University of Hawaii, however, may be allowed to do work in absentia if the problem under investigation is of such a nature as to require it. The privilege of doing work in absentia may be granted under similar conditions to graduates of other institutions who have completed one full year
of part time work or one semester of full time work at the University of Hawaii.

Work of advanced grade done at institutions other than the University of Hawaii may be accepted as fulfilling part of the requirements for the master’s degrees, provided that the amount of work done at the University of Hawaii shall be equal to at least one-half of the total work required. The amount of credit to be allowed for work done elsewhere will be determined by the Committee on Graduate Work after examination of the transcript of record of the candidate.

As a rule, lower division courses will not be accepted for credit toward the advanced degree. In general, upper division courses may be taken for credit toward the advanced degree, some for full credit, others for partial credit, the amount to be determined by the Committee on Graduate work.

A matriculation fee of five dollars is required of all candidates for advanced degrees.

Candidates should signify their intention of continuing their candidacy by registration at the beginning of each year. Candidates enrolled in regular undergraduate classes should register at the beginning of each semester.

The advanced work may be restricted to one subject only, or to a major and a minor, or to a major and two minors; but at least one-half of the work must be in the major, and the minors must be so correlated with the major as to satisfy the Committee on Graduate Work that the candidate is working with a definite purpose.

The general subject of the thesis, together with the written approval of the chairman of the committee in charge, must be furnished to the Committee on Graduate Work not later than December 1st of the collegiate year in which the degree is to be taken.

The completed thesis must be presented to the Committee on Graduate Work at least one week before the date set for the candidate’s examination, and must win the Committee’s approval as demonstrating the candidate’s ability both to do original work and also to present the results of that work in creditable form. The thesis, accompanied by the written approval of the chairman of the candidate’s committee, will be returned for use in the examination or for binding. Before the candidate is granted a degree, a typewritten copy of the thesis on pages 8x10½ inches in size, bearing the written approval of the professor in charge of the candidacy, must be deposited in the Library as the permanent property of the University, together with a fee sufficient to pay for binding.

The examination for the degree will be conducted by the committee in charge of the candidate’s work, and may be either
written or oral, or both written and oral. It shall be open to all members of the faculty. Requests for examinations should be made in writing to the Committee on Graduate Work not later than April 15, and the Committee will announce the time and place of examination not later than May 1.

**Preparation for Professional Degrees**

The prospective student of medicine may follow here either of two lines of procedure. He may take a two-year course, taking only such studies as are required for admission to the medical school. Or he may remain here for three or four years, thereby obtaining a fuller preparation for his professional studies and at the same time satisfying the requirements for the degree of B.S. or B.A. It is thus possible to obtain both the degrees of B.S or B.A. and M.D. in seven years.

Students planning to spend but two years in preparation for medical school or desiring the degree of B.S. should register in the course in General Science in the College of Applied Science. Persons desiring the degree of B.A. should register in Group III in the College of Arts and Sciences.

The medical schools adopting the requirements prescribed by the American Medical Association demand a minimum of 15 high school units, of which at least 3 must be in English, 2 in some one foreign language, 2 in mathematics, and 1 in history.

They also require a minimum of 60 university credit hours, as shown by the following schedule:

**Required Subjects**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester Hours</th>
<th>University of Hawaii Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>20</td>
<td>Chem. 101 or 102, 105 and 106, 124.</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
<td>Physics 102.</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
<td>Botany 101, Zool. 150 and 151.</td>
</tr>
<tr>
<td>English Composition</td>
<td>6</td>
<td>English 100.</td>
</tr>
<tr>
<td>Other non-science subjects:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History, language, economics</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Subjects Strongly Urged**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A modern foreign language</td>
<td>6 to 12</td>
</tr>
<tr>
<td>Advanced botany or advanced zoology</td>
<td>3 to 6</td>
</tr>
<tr>
<td>Psychology</td>
<td>3 to 6</td>
</tr>
<tr>
<td>Advanced mathematics, including trigonometry</td>
<td>3 to 6</td>
</tr>
</tbody>
</table>
Other Suggested Electives

English (additional), economics, history, sociology, political science, logic, mathematics, drawing, Latin, Greek.

Students preparing for schools of law or theology may obtain the degree of B.A. by satisfactorily completing three years of work in the University of Hawaii, and one year in an approved school of law or theology.

SCHOLARSHIPS AND PRIZES

Honolulu Chamber of Commerce Freshman Scholarship.—A scholarship of $100, awarded to the needy graduate of a Honolulu preparatory school presenting the best entrance record.

Honolulu Chamber of Commerce Agricultural Scholarship.—An annual scholarship of $100, awarded to an upper classman taking the course in Agriculture or the agricultural division of the course in Sugar Technology.

Hilo Chamber of Commerce Scholarships.—Annual scholarships of $100, awarded by a committee of the Hilo Chamber of Commerce to residents of East Hawaii who desire to take a full regular course at the University of Hawaii.

Maui Woman's Club Scholarship.—An annual scholarship of $100 is awarded by the Maui Woman's Club to a graduate of the Maui High School.

University Club Sophomore Scholarship.—This scholarship of $100 is awarded for the Sophomore year to that needy student who makes the best record in the work of the Freshman year.

Prince Fushimi Memorial Educational Fund.—The sum of $300 is available annually for the assistance of American citizens of Japanese ancestry of high scholastic and good moral standing who are unable to pay their educational expenses.

Pacific Guano and Fertilizer Co. Scholarship.—The Pacific Guano and Fertilizer Co. offers a scholarship of $250 for the study of soil fertility under the direction of Professor F. G. Krauss.

Association of Hawaiian Pineapple Canners Fellowship.—A Fellowship of $1200, established by the Association of Hawaiian Pineapple Canners for pineapple research work at the University of Hawaii.

Daughters of American Revolution Scholarships.—Aloha Chapter, D. A. R., offers two scholarships of $100 each to be used preferably for girls taking the Home Economics Course, one scholarship to be given, if possible, to a girl of Revolutionary or early American ancestry.
Scholarships and Prizes

Chinese Community Scholarships.—A fund of some $3000 has been given to the University of Hawaii to endow scholarships for students of Chinese ancestry. The income is awarded to three students of the junior or senior classes, preferably two men and one woman.

Stephen Spaulding Scholarship.—The income of an endowment of $2500, given by Florence Tucker Spaulding in memory of her son Stephen Spaulding, ex-1927, will be awarded annually as a scholarship to a male student of the University.

Honolulu Rotary Club Student Loan Fund.—The Rotary Club of Honolulu offers assistance to students to an approximate amount of $250 each year. Loans are made to students to be repaid as soon as convenient, without interest. Students are awarded assistance on the basis of character, scholarship, and need.

Berndt Prize in Oratory.—A prize of $100 annually is offered by Mr. Emil A. Berndt, of Honolulu, for a contest in Oratory. This contest is open to all undergraduates, and in certain cases to special students who are registered for twelve or more semester hours.

Applications for scholarships other than those of the Hilo Chamber of Commerce, the Maui Woman's Club and the Honolulu Rotary Club should be addressed to the President of the University not later than May 1.
COLLEGE OF APPLIED SCIENCE

PROGRAMS OF STUDY

The College of Applied Science offers the following courses of study leading to the degree of Bachelor of Science, the diploma to designate the course which has been pursued:

1. A course in AGRICULTURE.
2. A course in ENGINEERING.
3. Courses in SUGAR TECHNOLOGY.
   (a) Agricultural Division, with emphasis on field operations.
   (b) Chemistry Division, with emphasis on mill practice.
   (c) Sugar-house Engineering Division, with emphasis on construction and operation of sugar mills.
4. A course in HOME ECONOMICS.
5. A course in GENERAL SCIENCE, including:
   (a) Physical Sciences,—mathematics, physics, chemistry, and geology.
   (b) Biological Sciences,—botany, entomology, zoology, and nutrition.

AGRICULTURE

The Course in Agriculture is designed to give the student an intimate knowledge of the fundamental principles which underlie agriculture as a science and a profession, and thus equip him for effective service either in practical farming, agricultural education, or research work. Agricultural science comprehends a wide range of subjects, and includes something from nearly every department of human learning. The natural sciences of geology, chemistry, physics, botany, zoology, bacteriology, and physiology are directly and intimately related to it. Not in the sciences alone should the agricultural student be broadly educated, but also in mathematics, languages, history, and economics.

In outlining this course the object sought is first to teach the general laws governing the relationship of growing crops and living animals to soil, climate, and surroundings. The method is by lectures, supplemented by laboratory investigations and field experiments. This study of the fundamentals will be required of all students who intend to specialize in any advanced line of agricultural work.

Following this fundamental work the special applications and modifications appertaining to particular crops and problems are studied.
OUTLINE OF COURSE IN AGRICULTURE

The course in Farm Practice, Agriculture 150, must be completed before the beginning of the Junior year. It may be taken in the vacation following either the Freshman or the Sophomore year.

FIRST YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2nd Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>English 100</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Math. 150 and 151</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chem. 101 or 102</td>
<td>4</td>
</tr>
<tr>
<td>Botany</td>
<td>Bot. 101</td>
<td>3</td>
</tr>
<tr>
<td>Zoology</td>
<td>Zoology 150</td>
<td>3</td>
</tr>
<tr>
<td>Animal Husbandry</td>
<td>Agr. 151</td>
<td>-</td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All electives throughout the course are to be chosen with the advice and consent of adviser.

SECOND YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2nd Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>English 120 or 130</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chem. 124 or 105</td>
<td>3</td>
</tr>
<tr>
<td>Plant Physiology</td>
<td>Bot. 106</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology or Plant Pathology</td>
<td>Bot. 151 or 153</td>
<td>-</td>
</tr>
<tr>
<td>Physics</td>
<td>Phys. 102</td>
<td>4</td>
</tr>
<tr>
<td>Geology</td>
<td>Geol. 252</td>
<td>3</td>
</tr>
<tr>
<td>Horticulture</td>
<td>Agr. 261</td>
<td>-</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THIRD YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2nd Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entomology</td>
<td>Ent. 250, 251</td>
<td>3</td>
</tr>
<tr>
<td>Biological Chemistry</td>
<td>Chem. 260</td>
<td>3</td>
</tr>
<tr>
<td>Agricultural Chemistry</td>
<td>Chem. 261</td>
<td>-</td>
</tr>
<tr>
<td>Quantitative Analysis</td>
<td>Chem. 230</td>
<td>3</td>
</tr>
<tr>
<td>Soils</td>
<td>Agr. 250</td>
<td>5</td>
</tr>
<tr>
<td>Crops</td>
<td>Agr. 251</td>
<td>-</td>
</tr>
<tr>
<td>Bacteriology or Plant Pathology</td>
<td>Bot. 151 or 153</td>
<td>-</td>
</tr>
<tr>
<td>Forestry</td>
<td>Agr. 259</td>
<td>-</td>
</tr>
<tr>
<td>Genetics</td>
<td>Agr. 254</td>
<td>3</td>
</tr>
</tbody>
</table>

Students intending to enter pineapple work are advised to take Agriculture 258 in the summer after the Junior year.
ENGINEERING

The Course in Engineering is designed to give thorough training in the fundamental principles upon which professional engineering practice is based, and to illustrate the application of these principles by the solution of numerous practical problems. Persons entering this course are expected to be well prepared in the physical sciences and in mathematics up to and including solid geometry and plane trigonometry. (See Entrance Requirements, page 29.) It is desired to emphasize the necessity of thorough preparation in order that the more serious work of mastering technical subjects may not be hampered by lack of proper groundwork.

The general plan provides a broad foundation in English, mathematics, chemistry, physics, and drawing during the first two years. The work of the last two years is more technical and professional in its nature, embracing the study of the principles involved in power development by means of the various prime movers, including steam engines, water-wheels, gas and gasoline engines, and steam turbines; and also a study of the design of such machines, and of the materials entering into their construction, as well as practical tests to determine their working efficiency and economy of operation. It is aimed to fit graduates to assume gradually, as practical experience is acquired, those administrative responsibilities which are more and more devolving upon men of technical training, and to become ultimately skilful practical engineers. So far as possible, the importance of each subject covered is illustrated by the application to some work which is met with in actual practice. It is also intended
that the course shall be valuable from an educational viewpoint; therefore, while the student is learning each subject both theoretically and practically, the training of his mind is kept in view as well as the needs of the profession.

OUTLINE OF COURSE IN CIVIL ENGINEERING

FIRST YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem</th>
<th>Credits 2nd Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>English 100</td>
<td>3</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>Chem. 101 or 102</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing</td>
<td>M. D. 101</td>
<td>2</td>
</tr>
<tr>
<td>Analytic Geometry and Trig., Algebra and Calculus</td>
<td>Math. 104</td>
<td>5</td>
</tr>
<tr>
<td>Plane Surveying</td>
<td>C. E. 101</td>
<td>3</td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem</th>
<th>Credits 2nd Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus</td>
<td>Math. 106</td>
<td>3</td>
</tr>
<tr>
<td>Descriptive Geometry</td>
<td>M. D. 133</td>
<td>2</td>
</tr>
<tr>
<td>English</td>
<td>Eng. 120 or 130</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Roads and Pavements</td>
<td>C. E. 125</td>
<td>2</td>
</tr>
<tr>
<td>General Physics</td>
<td>Phys. 150 and 151</td>
<td>3</td>
</tr>
<tr>
<td>Office and Shop Methods</td>
<td>M. E. 129</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

THIRD YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem 2nd Sem 1st Sem 2nd Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical Mechanics</td>
<td>C.E.252 4 4</td>
</tr>
<tr>
<td>Structural Mechanics</td>
<td>C.E.253 – 4</td>
</tr>
<tr>
<td>Theoretical Hydraulics</td>
<td>C.E.255 – 3</td>
</tr>
<tr>
<td>Materials of Construc-</td>
<td>M.E.252 3 –</td>
</tr>
<tr>
<td>tion</td>
<td></td>
</tr>
<tr>
<td>Economics</td>
<td>Econ.252 – 3</td>
</tr>
<tr>
<td>Astronomy</td>
<td>Math.250 – 3</td>
</tr>
<tr>
<td>Steam Machinery</td>
<td>M.E.282 3 –</td>
</tr>
<tr>
<td>Geology for Engineers</td>
<td>Geol.256 3 –</td>
</tr>
<tr>
<td>Topographical Surveying</td>
<td>C.E.201 – 3</td>
</tr>
<tr>
<td>Railroad Surveying</td>
<td>C.E.227 3 –</td>
</tr>
<tr>
<td>Materials Laboratory</td>
<td>X.E.253 – 3</td>
</tr>
<tr>
<td>Physics (Electricity</td>
<td>(Electricity and Light)</td>
</tr>
<tr>
<td>and Light)</td>
<td>Phys.250, 251 2 2</td>
</tr>
<tr>
<td>Irrigation Engineering</td>
<td>C.E.257 – 2</td>
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</tbody>
</table>
Sugar Technology

FOURTH YEAR.

<table>
<thead>
<tr>
<th>Course</th>
<th>1926-1927</th>
<th>1927-1928</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy</td>
<td>Math.250</td>
<td>-</td>
</tr>
<tr>
<td>Steam Machinery</td>
<td>M.E.282</td>
<td>3</td>
</tr>
<tr>
<td>Geology for Engineers</td>
<td>Geol.256</td>
<td>-</td>
</tr>
<tr>
<td>Municipal Engineering</td>
<td>C.E.229</td>
<td>3</td>
</tr>
<tr>
<td>Topographical Surveying</td>
<td>C.E.201</td>
<td>-</td>
</tr>
<tr>
<td>Railroad Surveying</td>
<td>C.E.227</td>
<td>3</td>
</tr>
<tr>
<td>Physics (Adv. Electricity)</td>
<td>Phys.200</td>
<td>3</td>
</tr>
<tr>
<td>Structural Design</td>
<td>C.E.276</td>
<td>-</td>
</tr>
<tr>
<td>Bridge Design</td>
<td>C.E.277</td>
<td>-</td>
</tr>
<tr>
<td>Concrete and Masonry Structures</td>
<td>C.E.279</td>
<td>-</td>
</tr>
<tr>
<td>Contracts and Specifications</td>
<td>M.E.283</td>
<td>2</td>
</tr>
<tr>
<td>Hydraulic Constructions</td>
<td>C.E.282</td>
<td>2</td>
</tr>
</tbody>
</table>

SUGAR TECHNOLOGY

The Courses in Sugar Technology are designed primarily for the student who, on leaving college, intends to enter into active service in some branch of the sugar industry. Although these courses, since they prepare for one particular industry, might be termed highly specialized, the importance of a sound training in general science has not been overlooked, the first two years being devoted largely to English, mathematics, physics, and chemistry. In the third and fourth years, enough special instruction in subjects pertaining directly to the sugar industry is given so that the man who completes this course should have sufficient technical understanding to prove of some immediate value in a subordinate position on a plantation, and yet not have his future progress hampered on an inadequate theoretical training.

The Hawaiian Sugar Planters' Association offers many very valuable opportunities for making more practical the instructional work of the University. Advanced students serve as apprentices in their mills and plantations, and take part in their Experiment Station projects and activities.

The cane sugar industry, as carried on in the tropics, comprises in itself two quite distinct branches: the growing of cane, and its manufacture into sugar. Inasmuch as it would be extremely difficult, if not impossible, to acquire thorough knowledge in both these branches in four years, the courses in Sugar Technology are offered in three divisions.
Agricultural Division. The first two years are almost parallel with the Course in Agriculture. In the third year it is advisable to elect certain courses in chemistry in addition to strictly agricultural topics, for the reason that sugar production is probably more dependent on chemistry than is any other branch of agriculture. Sugar analysis is also required, as familiarity with this work is often required of a field chemist. The lectures on cane sugar manufacture are required in the fourth year, as it is desirable that the agriculturist have some knowledge of what happens to the cane after he has grown it.

Sugar Chemistry Division. The work of the first two years follows closely that of the Agricultural Division, but in the third and fourth years the course differs in offering more work in chemistry, with the purpose of giving such training in chemistry as shall prepare a student not only to become an efficient sugar chemist, but also to conduct investigations leading to better methods of control in the manufacture of sugar.

Sugar House Engineering Division. The first year is identical with the Course in Engineering, while the second year differs only in the substitution of qualitative analysis for advanced mechanical drawing. Chemistry is continued in the third year, together with the most essential of the engineering subjects. Students in this division take sugar analysis and sugar manufacture together with those of the Sugar Agricultural Division.

During the summer vacation between the third and fourth years a minimum of eight weeks' work on one of the plantations, or in connection with the work of the Experiment Station of the Hawaiian Sugar Planters' Association, is required of students in all divisions. To obtain credit for this, the student must submit a written report of the work performed.

The second semester of the fourth year is devoted almost entirely to practical work. Arrangements are made whereby students in the Sugar Agriculture Division serve as Student Assistants in the Experiment Station of the Hawaiian Sugar Planters' Association, and those in the Sugar-house Engineering Division serve as special apprentices in the factory of one of the plantations, where they actually perform the manual labor required at the various stations of the mill and boilinghouse. Careful notes must be kept of this work and a report submitted at the end of the semester.

This also applies to students in the Sugar Chemistry Division, who may elect either field or factory practice.
### Sugar Technology

**OUTLINE OF COURSES IN SUGAR TECHNOLOGY**

**AGRICULTURAL DIVISION**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>Eng. 100</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Math. 150 and 151</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chem. 101 or 102</td>
<td>4</td>
</tr>
<tr>
<td>Botany</td>
<td>Bot. 101</td>
<td>3</td>
</tr>
<tr>
<td>Drawing</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Suggested Electives:** History, American Institutions, Modern Language (French or Spanish).

Summer Farm Practice. Agriculture 150. Summer vacation. (This may be taken at end of either freshman or sophomore year.)

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Eng. 120 or 130</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Qualitative Analysis</td>
<td>Chem. 124</td>
<td>3</td>
</tr>
<tr>
<td>Physics</td>
<td>Phys. 102</td>
<td>4</td>
</tr>
<tr>
<td>Surveying</td>
<td>C. E. 101</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3 to 6</td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Suggested Electives:** Plant Physiology (Bot. 106), Zoology 150, Geology 252, Bacteriology or Plant Pathology (Bot. 151 or 153), Modern Language (French or Spanish), Chemistry 105 and 106, Forestry (Agr. 259), Horticulture (Agr. 261).

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sugar Analysis</td>
<td>S. T. 201</td>
<td>3</td>
</tr>
<tr>
<td>Soils</td>
<td>Agr. 250</td>
<td>5</td>
</tr>
<tr>
<td>Crops</td>
<td>Agr. 251</td>
<td>5</td>
</tr>
<tr>
<td>Genetics</td>
<td>Agr. 254</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>*Field Practice</td>
<td>S. T. 253</td>
<td>6</td>
</tr>
</tbody>
</table>

*Taken in the summer vacation following the Junior year.*
Sugar Technology

**Suggested Electives:**

- Agricultural Chemistry (Chem. 261).
- Biological Chemistry (Chem. 260).
- Quantitative Analysis (Chem. 230).
- Bacteriology (Bot. 151).
- Plant Pathology (Bot. 153).
- Entomology 250 and 251.
- Forestry (Agr. 259).
- Horticulture (Agr. 261).

### FOURTH YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2d Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sugar-house Calculations</td>
<td>S. T. 250</td>
<td>1</td>
</tr>
<tr>
<td>Sugar Manufacture</td>
<td>S. T. 252</td>
<td>3</td>
</tr>
<tr>
<td>Sugar Cane Production</td>
<td>Agr. 252</td>
<td>4</td>
</tr>
<tr>
<td>Economics</td>
<td>Econ. 150</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>5 or 6</td>
</tr>
<tr>
<td>Field Practice</td>
<td>S. T. 255</td>
<td>-</td>
</tr>
</tbody>
</table>

**Suggested Elective:**

- Applied Genetics (Agr. 262).

**Sugar Chemistry Division**

### FIRST YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2d Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>Eng. 100</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Math. 150 and 151</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chem. 101 or 102</td>
<td>4</td>
</tr>
<tr>
<td>Botany</td>
<td>Bot. 101</td>
<td>3</td>
</tr>
<tr>
<td>Drawing</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Suggested Elective:** French.

### SECOND YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2d Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Eng. 120 or 130</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Qualitative Analysis</td>
<td>Chem. 124</td>
<td>3</td>
</tr>
<tr>
<td>Physics</td>
<td>Phys. 102</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>
SUGGESTED ELECTIVES:

Modern Language (French).
Geology 252.
Bacteriology (Bot. 151).
Plant Pathology (Bot. 153).
Surveying (C. E. 101).
Zoology 150.
Organic Chemistry (Chem. 105 and 106).

THIRD YEAR

Name of Course Credits 1st Sem. 2d Sem.

Soils --------------- Agr. 250 5
Crops --------------- Agr. 251 5
Sugar Analysis ----- S. T. 201 3 3
Electives ............ 9-12 9-12

*Field or Mill Practice Summer S.T. 253 6

SUGGESTED ELECTIVES:

Quantitative Chemistry (Chem. 230).
Agricultural Chemistry (Chem. 261).
Biological Chemistry (Chem. 260).
Bacteriology or Pathology (Bot. 151 or 153).
Physical Chemistry (Chem. 211).
Physical Chemistry Laboratory (Chem. 212).

FOURTH YEAR

Name of Course Credits 1st Sem. 2d Sem.

Sugar Cane Production -------- Agr. 252 4
Sugar Manufacture ---------- Econ. 252 3
Sugar-house Calculations ---- S. T. 250 1
Economics .................. Econ. 150 3
Electives .................. 6
Field or Factory Practice --- S. T. 255 or 257 16

SUGGESTED ELECTIVES:

Accounting (Com. 150).
Quantitative Analysis (Chem. 216).
Physical Chemistry (Chem. 211).
Physical Chemistry Laboratory (Chem. 212).

* A required course taken in the summer vacation following the Junior year.
Sugar Technology

Sugar-House Engineering Division

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2d Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytic Geometry, Algebra and Calculus</td>
<td>Math. 104</td>
<td>5</td>
</tr>
<tr>
<td>English Composition</td>
<td>Eng. 100</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chem. 101 or 102</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing</td>
<td>M. D. 101</td>
<td>2</td>
</tr>
<tr>
<td>Plane Surveying</td>
<td>C. E. 101</td>
<td>3</td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

*Suggested Elective: French or Spanish.*

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2d Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Eng. 120 or 130</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Physics</td>
<td>Phys. 150 and 151</td>
<td>3</td>
</tr>
<tr>
<td>Qualitative Analysis</td>
<td>Chem. 124</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>Chem. 105</td>
<td>3</td>
</tr>
<tr>
<td>Calculus</td>
<td>Math. 106</td>
<td>3</td>
</tr>
<tr>
<td>Shop and Office Methods</td>
<td>M. E. 129</td>
<td>2</td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2d Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantitative Analysis</td>
<td>Chem. 230</td>
<td>3</td>
</tr>
<tr>
<td>Sugar Analysis</td>
<td>S. T. 201</td>
<td>3</td>
</tr>
<tr>
<td>Analytical Mechanics</td>
<td>C. E. 252</td>
<td>4</td>
</tr>
<tr>
<td>Structural Mechanics</td>
<td>C. E. 253</td>
<td>-</td>
</tr>
<tr>
<td>Hydraulics-Theoretical</td>
<td>X. E. 253</td>
<td>-</td>
</tr>
<tr>
<td>Engineering Laboratory</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Steam Machinery</td>
<td>M.E. 282</td>
<td>3 or 0</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3 or 6</td>
</tr>
<tr>
<td>Physics (Electricity and Light)</td>
<td>Phys. 250 and 251</td>
<td>2</td>
</tr>
<tr>
<td>*Summer Field Practice</td>
<td>S.T. 253</td>
<td>-</td>
</tr>
</tbody>
</table>

**FOURTH YEAR**

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2d Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sugar-House Calculations</td>
<td>S.T. 250</td>
<td>1</td>
</tr>
<tr>
<td>Sugar Manufacture</td>
<td>S.T. 252</td>
<td>3</td>
</tr>
<tr>
<td>Engineering of Sugar-Plants</td>
<td>M.E. 284</td>
<td>4</td>
</tr>
<tr>
<td>Economics</td>
<td>Econ. 150</td>
<td>3</td>
</tr>
<tr>
<td>Steam Machinery</td>
<td>M.E. 282</td>
<td>0 or 3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3 or 0</td>
</tr>
<tr>
<td>Physics (Adv. Electricity)</td>
<td>Phys. 200</td>
<td>3</td>
</tr>
<tr>
<td>Factory Practice</td>
<td>S.T. 257</td>
<td>16</td>
</tr>
</tbody>
</table>

*Taken in the summer vacation following the Junior year.*
HOME ECONOMICS

The Course in Home Economics is designed to meet the needs of women students who wish to specialize either in the applications of art or science, or both, to the household. The work of the first two years is prescribed, that of the last two elective within the range of subjects belonging either to Household Science or Art, or closely related thereto. In selecting the elective subjects of Junior and Senior years the student will be assisted by her Faculty Adviser to arrange a program adapted to her special needs and capabilities.

OUTLINE OF HOME ECONOMICS COURSE

FIRST YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem</th>
<th>Credits 2nd Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Drawing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Textiles and Garment Making</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Elementary Food Preparation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem</th>
<th>Credits 2nd Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>2 or 3</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Color and Design</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Dressmaking and Designing</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Food Economics</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Suggested Elective for students majoring in home economics: Organic Chemistry (Chem. 105).

THIRD AND FOURTH YEARS

Prescribed. Unless taken earlier in the course, the following subjects must be taken in Junior and Senior Years:

Art 201
Household Science 200, 250
Physiology 251

Economics 150 and 151
Physical Education
General Science

Electives. Courses to complete the minimum requirements of 132 credits for graduation must be selected from the following:

Art 200, 202, 250, 251
Household Art 150, 153, 200, 250
Household Science 249, 251
Botany 101, 151
Zoology 150, 151
Entomology 250, 257
Chemistry 124, 260
Sociology 250, 251
Accounting (Com. 150, 151)
History (not over 12 credits)
Advanced English courses
American Literature
Education
Foreign Language (not over 18 credits)

GENERAL SCIENCE

The General Science Course is designed for those students who do not wish to enter upon the strictly limited programs of study of the more professional courses of Engineering, Agriculture, Home Economics and Sugar Technology. It is intended that each student shall have a knowledge of the elements of a considerable range of subjects, and at the same time specialize in some field sufficiently to become acquainted with its more advanced phases and proficient in its methods of work. In order to accomplish this result the student is allowed considerable latitude in the selection of studies, and yet required to carry the major part of his elective work in some one group of sciences.

In order to graduate in the General Science Course the student must have passed the prescribed studies of the first and second years and have satisfactorily completed not less than a total of 136 credits. One of the two groups—Physical Sciences or Biological Sciences—must be selected, and not less than 60 per cent of the elective work of the course taken in this major group.

In the group of studies designated as Physical Sciences, the student has the opportunity of electing work in Chemistry, Physics, and Mathematics, thus becoming trained to take up work as a chemist or as an instructor in the physical sciences.

If the student prefers work in the group known as Biological Sciences he has the privilege of choosing such subjects as Botany, Zoology, Entomology and Household Science.

Students who plan to specialize in Chemistry, Zoology or Botany should have a working knowledge of French, since it is essential for advanced work in these subjects. Such students, therefore, should elect French in the Freshman year. In every case, the student should consult for advice the head of that department in which he plans to take the major course.
General Science

Students who plan to meet the entrance requirements of medical schools by either two or three years of resident collegiate work, electing the major portion of their work in science, should enter this course. Electives chosen must, to a large extent, be governed by the standard admission requirements of medical schools (see page 34). Attention of entering students is particularly called to the prerequisite for Physics 102. Students who enter with four years of high school mathematics are not required to elect Mathematics 150, 151 in their Freshman year.

OUTLINE OF GENERAL SCIENCE COURSE

PRESCRIBED WORK

FIRST YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2d Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>Eng. 100</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chem. 101 or 102</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>9-11</td>
<td>9-11</td>
</tr>
<tr>
<td>‡Military or Phys. Education</td>
<td></td>
<td>2 or 1</td>
</tr>
</tbody>
</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits 1st Sem.</th>
<th>Credits 2d Sem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Eng. 120 or 130</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>‡Military or Phys. Education</td>
<td></td>
<td>2 or 1</td>
</tr>
</tbody>
</table>

ELECTIVE WORK

GROUP A

PHYSICAL SCIENCES

1st Year. *2nd Year. †3rd and 4th Years.

<table>
<thead>
<tr>
<th>Math. 104, 150, 151</th>
<th>Math. 106</th>
<th>Math. 250, 252, 253</th>
</tr>
</thead>
<tbody>
<tr>
<td>152, 153</td>
<td>Phys. 102, 150, 151</td>
<td>Chem. 211, 212, 215,</td>
</tr>
<tr>
<td>Geog. 150, 151</td>
<td>Chem. 105, 106, 124</td>
<td>216, 230, 260, 261</td>
</tr>
<tr>
<td>Drawing</td>
<td>Geol. 252, 253, 256</td>
<td>Sugar Tech. 201, 250,</td>
</tr>
<tr>
<td>Language</td>
<td>C. E. 101</td>
<td>252</td>
</tr>
<tr>
<td>or</td>
<td>M. D. 133</td>
<td>Phys. 200, 250, 251,</td>
</tr>
<tr>
<td>Political Science 100</td>
<td>Language</td>
<td>350, 351</td>
</tr>
<tr>
<td>or</td>
<td>History 140</td>
<td>C. E. 252, 253, 255</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M. E. 252, 282</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Geol. 254, 255</td>
</tr>
</tbody>
</table>

* First year electives are open to Sophomores.
† Two credits for men; 1 credit for women.
‡ First year science electives taken by Juniors and Seniors count half credit only. Second year electives are open to Juniors and Seniors.
**General Science**

**Group B**

**BIOLOGICAL SCIENCES**

<table>
<thead>
<tr>
<th>1st Year</th>
<th>*2nd Year</th>
<th>†3rd and 4th Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bot. 101</td>
<td>Bot. 102, 106</td>
<td>Bot. 151, 153, 203, 208, 209, 300</td>
</tr>
<tr>
<td>Zool. 150, 151</td>
<td>Chem. 105, 106</td>
<td>Chem. 230, 260, 261</td>
</tr>
<tr>
<td>Geog. 150, 151</td>
<td>Zool. 100</td>
<td>Zool. 102, 152, 300</td>
</tr>
<tr>
<td>H. S. 100</td>
<td>Ent. 250, 251</td>
<td>Ent. 255, 257, 300, 301</td>
</tr>
<tr>
<td>Drawing</td>
<td>Geol. 252, 253, 256</td>
<td></td>
</tr>
<tr>
<td>Language or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Political Science 100</td>
<td>Physics 102</td>
<td>Agr. 250, 251, 254</td>
</tr>
<tr>
<td></td>
<td>Physiol. 251</td>
<td>256, 259, 261, 262</td>
</tr>
<tr>
<td></td>
<td>Psychology 151</td>
<td>Geol. 254, 255</td>
</tr>
<tr>
<td></td>
<td>Language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>H. S. 200, 251, 300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Econ. 150, 151</td>
</tr>
<tr>
<td></td>
<td>History 140</td>
<td></td>
</tr>
</tbody>
</table>

*First year electives are open to Sophomores.
† First year science electives taken by Juniors and Seniors count half credit only. Second year electives are open to Juniors and Seniors.
COLLEGE OF ARTS AND SCIENCES

ORGANIZATION

The College of Arts and Sciences was created by the Act of the 1919 Legislature of the Territory of Hawaii which established the University of Hawaii. Officially it came into being on July 1, 1920.

The College of Arts and Sciences has a twofold purpose. Its first aim is to make possible a comprehensive and thorough acquaintance with those fields of thought and achievement, both in the humanities and the sciences, upon which our present civilization has been reared. It seeks also, through the operation of a system of group electives, commencing with the Sophomore year, to prepare the student for those activities which are professional rather than technical in their nature, such as law, medicine, teaching, journalism, commerce, and public and social service.

In the main, therefore, the courses of study offered in this College are those generally recognized as forming the basis of a liberal education. In one important particular there has been a deviation, and that because of Hawaii's unique geographical position. Standing midway between continental America and the Orient, Hawaii must understand the Orient as well as the Occident. More than usual attention is therefore given to the languages, literature, philosophy, and history of the lands bordering upon the Pacific.

Graduates from the College of Arts and Sciences will be granted the degree of Bachelor of Arts.

Requirements for Graduation. To be entitled to the degree of Bachelor of Arts, the candidate must

(a) have passed all the prescribed studies (see page 52).
(b) have received credit for a minimum of 128 semester hours, and
(c) have gained a minimum of 136 grade points,* of which at least 69 must have been gained during the last half of the course.

Language Requirement. Students in the College of Arts and Sciences must complete French 101, Spanish 101, or an equivalent by the end of the Sophomore year; or Chinese 200, Japanese 200, Hawaiian 200, or an equivalent by the end of the Junior year. Students who fail to meet this requirement will not be allowed credit toward graduation for a language course taken later to make up this deficiency.

*For an explanation of grade points see page 24.
Number of semester hours a semester. Except as provided below, no student in the College of Arts and Sciences shall be permitted to register for more than 16 semester hours in any semester, in addition to the prescribed courses in Military Drill and Physical Education. Students who have, however, during the preceding semester, gained a minimum of 30 grade points may register for 18 credit hours, in addition to Military Drill and Physical Education; as may freshmen during their first semester, provided their grades in the subjects offered for entrance average 85% or more.

Although the greater part of the work is elective, the student is expected to select his studies in conformance with a well-defined program. To this end he registers in one of the five groups of allied subjects indicated below, and is given a Faculty Adviser who will assist him in his choice of studies. No credit will be given for any course not regularly entered, with the adviser's approval, upon the registration card.

Group I. History, Economics, and Social Science.
Group II. Languages, Literature, and Art.
Group III. Natural and Physical Sciences.
Group IV. Education.
Group V. Commerce.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

PRESCRIBED STUDIES

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>Eng. 100</td>
<td>3</td>
</tr>
<tr>
<td>*A Science Chem. 101 or 102; Bot. 101; Zool. 150, 151</td>
<td>4 or 3</td>
<td>4 or 3</td>
</tr>
<tr>
<td>American Institutions</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>**Elective</td>
<td></td>
<td>5 or 6</td>
</tr>
<tr>
<td>†Military Science or Physical Education</td>
<td>2 or 1</td>
<td>2 or 1</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Literature</td>
<td>Eng. 130</td>
<td>3</td>
</tr>
<tr>
<td>‡Logic</td>
<td>Phil. 150 or 151</td>
<td>3 or 3</td>
</tr>
<tr>
<td>‡Psychology</td>
<td>Psych. 150 or 151</td>
<td>3 or 3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>†Military Science or Physical Education</td>
<td>2 or 1</td>
<td>2 or 1</td>
</tr>
</tbody>
</table>

*May be taken in Sophomore year.
**See above.
†One credit for women; 2 credits for men.
‡Students in Group IV should register for Psychology in 1st semester.
All electives, except Physical Education for women.

Group Electives

In addition to the courses listed above as required of all students in the College of Arts and Sciences, certain elective courses must be chosen to meet the Group Requirements stated below. Other electives may be chosen as the student desires, provided the prerequisites of the courses are satisfied. The student is expected, however, to map out a plan of study with the aid of a Faculty Adviser. The Group Electives are listed under the heads of the respective groups, together with the year in which they can ordinarily be most advantageously taken.

Group I—History, Economics, and Social Science

Students preparing for the study of law or for public or social service will select this Group. Of the 90 elective semester hours, at least 42 are to be chosen from courses in History, Political Science, Sociology, Economics, Commerce, and Geography.

First Year: History 100, 104, 140, 162, 177, 193; Geography 150, 151.

Second Year: History 107, 120, 123, 124, 125, 145; Political Science 110, 120; Economics 150, 151.


Group II—Languages, Literature, and Art

Students preparing for Journalism should select either this Group or Group I.

Art 250, 251 is a required course in this Group. Of the elective courses, a minimum of 40 semester hours must be chosen from the courses in English, French, Spanish, Hawaiian, Chinese, Japanese, and Art 100, 101, 201, 202, 203, 210, 211.

Group III—Natural and Physical Sciences

Students preparing for medicine or dentistry will select this Group, provided they are candidates for the degree of Bachelor of Arts. See page 34.

‡Physical education is required of women during the four years.
Of the 90 elective semester hours, at least 48 must be chosen from some group of related sciences. A statement of the minimum requirements of medical schools and of subjects strongly urged appears on page 34.

First Year: Chemistry 101 or 102; Botany 101; Zoology 150 and 151; Mathematics 104, 150, 151, 152, 153.

Second Year: Chemistry 105, 106, 124; Zoology 100, 102, 152; Physics 102; Botany 102, 106, 151, 153.

Third Year: Chemistry 230, 260, 261; Botany 203; Entomology 250, 251, 255, 257; Geology 252, 253; Physiology 251.

Fourth Year:* Chemistry 215, 216, 318; Botany 208, 209, 300; Zoology 300; Entomology 200, 300, 301; Geology 254, 255, 300.

Group IV—Education

The number of semester hours to be chosen within this Group will vary with the subject or subjects the student is preparing to teach. In addition to the courses dealing with the subjects to be taught (see page 72) the student will select courses in Psychology and Education aggregating at least 20 semester hours.

Second Year: Education 151.

Third Year: Education 251; Educational Psychology 250.

Fourth Year:* Education 250, 252 and 253; Psychology 200, 251, 252, 253 and 257.

Group V—Commerce

Students desiring an education for Commerce will register in this Group. The courses should be chosen in accordance with the following outline.

OUTLINE OF COURSE IN COMMERCE

FIRST YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>Eng. 100</td>
<td>3</td>
</tr>
<tr>
<td>American Institutions</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>A Modern Language (French, Spanish, Japanese or Chinese. (See page 51))</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Geography</td>
<td>Geog. 150, 151</td>
<td>3</td>
</tr>
<tr>
<td>Elective (Mathematics or History advised)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Military Science or Physical Education</td>
<td></td>
<td>2 or 1</td>
</tr>
</tbody>
</table>

*Junior courses are open to Seniors.
# Commerce

## SECOND YEAR

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Literature</td>
<td>Eng. 130</td>
<td>3</td>
</tr>
<tr>
<td>A Modern Language (cont.)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elements of Economics</td>
<td>Econ. 150, 151</td>
<td>3</td>
</tr>
<tr>
<td>Accounting</td>
<td>Com. 150, 151</td>
<td>3</td>
</tr>
<tr>
<td>Logic</td>
<td>Phil. 150 or 151</td>
<td>3 or 3</td>
</tr>
<tr>
<td>Psychology</td>
<td>Psych. 150 or 151</td>
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<tr>
<td>Military Science or Physical Education</td>
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## THIRD YEAR

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<th>Name of Course</th>
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<tr>
<td>Argumentation or Technical &amp; Business English</td>
<td>Eng. 206 or Eng. 120</td>
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<tr>
<td>Money and Banking</td>
<td>Econ. 260</td>
<td>3*</td>
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<tr>
<td>Business Law</td>
<td>Com. 260, 261</td>
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<tr>
<td>Business Management</td>
<td>Com. 262</td>
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<tr>
<td>Corporation Finance</td>
<td>Com. 263</td>
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<tr>
<td>Marketing</td>
<td>Com. 270, 271</td>
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## FOURTH YEAR

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<td>Advanced Accounting</td>
<td>Com. 252, 253</td>
<td>3</td>
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<tr>
<td>or Foreign Trade</td>
<td>Com. 274, 275</td>
<td>3</td>
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<tr>
<td>Elective in Commerce</td>
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<tr>
<td>Elective</td>
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* To be given in the second semester in 1926-1927.
DETAILED STATEMENT OF

SUBJECTS OF INSTRUCTION*

AGRICULTURE

The University of Hawaii is advantageously situated for agricultural experiments and demonstrations. The climate permits of plant growth throughout the year. The alternation of wet and dry seasons affords opportunities for work under conditions both of rainfall and irrigation. To the facilities of the University are added those of the Territorial Board of Agriculture and Forestry, the Federal Experiment Station, Experiment Stations of the Hawaiian Sugar Planters’ Association and of the Association of Hawaiian Pineapple Canners and the Kamehameha Schools, the latter having placed an acre of pineapple land at Kapalama at the disposal of the Agronomy Division.

Lands.—The University farm comprises some sixty acres lying between the University buildings and the Manoa Stream. Any portion of it can be reached by a five minutes’ walk from the classrooms. About twenty-two acres, laid off in a permanent and definite system of one-acre fields, are under cultivation. The remainder is in pasture and unimproved fields. Though some of the latter are too rocky to plow, they may be utilized for experiments in forestry. The pasture lands are well fenced.

Roads.—A permanent graded road constitutes the axis of the farm, and branches from this give access to all cultivated fields.

Irrigation.—A twelve-inch irrigation line from the Manoa Stream, with five-inch laterals, provides water for the cultivated fields.

Laboratories.—The agricultural laboratories are well equipped with the necessary apparatus for carrying on experiments in connection either with class work or research work, and also contain collections of typical Hawaiian soils, seeds, dried and preserved plant specimens, feed stuffs, fertilizers and animal models.

Buildings.—The buildings consist of a piggery, poultry houses, milking barn, bull and calf barn and feed room, dairy, horse barn, sheds for farm machinery and implements, tool shed, and six cottages for laborers.

*Explanation of course numbers:—100 to 199, Lower Division courses; 200 to 299, Upper Division courses; 300 to 399, Graduate courses. In each Division 00 to 49 indicate year courses; 50 to 99 indicate semester courses, even numbers first semester and odd numbers second semester.
Library.—An extensive collection of books dealing with agricultural subjects is found in the University Library. There is also a rather extensive file of U. S. Department of Agriculture publications and bulletins, as well as those of the various state experiment stations. The leading agricultural magazines are received regularly.

Livestock.—The University possesses a herd of fine dairy animals of both the Holstein and Guernsey breeds, Berkshire and Tamworth swine, and the necessary horses to do farm work.

Poultry.—A well equipped poultry plant covering an acre of ground and stocked with approximately twelve hundred fowls affords students an opportunity to gain a good practical experience in poultry production. The breed that predominates and is used for the various breeding, feeding, and general management experiments is the S. C. White Leghorn. Pens of S. C. Brown Leghorns, Barred Plymouth Rocks and Rhode Island Reds are also maintained.

150. **SUMMER FARM PRACTICE.** A period of at least eight weeks must be spent in practical farm work, either on the University farm or some other approved farm where diversified agriculture is practiced. The purpose in this course is to gain familiarity with the fundamental agricultural operations, the care of farm animals, and the care and use of implements. Required of all students in Agriculture and Agricultural division of Sugar Technology before the beginning of the Junior year. Those who can present satisfactory evidence of sufficient practical experience may be excused from this requirement.

*Profs. Henke and Krauss.*

151. **ANIMAL HUSBANDRY.** A general study of the important breeds of horses, cattle, sheep, and swine, their feeding, care and management. Required of Freshman in Agriculture. Lectures, recitations and laboratory work. Fee $1.00. Second semester, 3 credits.  

*Professor Henke.*

250. **SOILS.** Origin, composition, tilth, and fertility of soils with special reference to the Hawaiian Islands. Required of Juniors in Agriculture and Sugar Technology, Agriculture and Chemistry divisions. Three lectures or recitations and two laboratory periods each week. Fee $3.00; returnable deposit $2.00. First semester, 5 credits.  

*Professor Henke.*

*251. CROPS.* A study of the history, botany and culture of the leading tropical and temperate zone crops with special emphasis on the former. Required of Juniors in Agriculture and Sugar Technology, Agriculture and Chemistry Divisions. Pre-requisite, Agriculture 250. Three lectures or recitations, two laboratory periods each week. Fee $2.00. Second semester, 5 credits.  

*Professor Krauss.*
252. **Sugar Cane Production.** A study of the varieties of cane, their planting, irrigation, fertilization, and harvesting. Four lectures on irrigation by Professor C. B. Andrews. Includes visits to various experimental fields and plantations. Students are required to keep Fridays as free from other work as possible for field trips. Required of Seniors in Agriculture and Sugar Technology, Agriculture and Chemistry Divisions. Prerequisite: Agriculture 250 and 251. Lectures, recitations, and laboratory periods. Fee $2.00. First semester, 4 credits.

*Professor Henke.*

253. **Dairying.** A study of dairy cows, the production, handling, and marketing of milk and milk products, milk testing and separation, butter-making, etc. Required of Seniors in Agriculture. Two lectures or recitations, and one laboratory period a week. Fee $1.00. Second semester, 3 credits.

*Professor Henke.*

*254. Genetics.** A study of the underlying principles and their practical application in the improvement of plants and animals. Opportunity is offered to qualified students to undertake original investigations in the breeding of sugar cane, pineapples and other crops. The development of new varieties of legumes, tomatoes and other crop plants, as well as of a new variety of poultry is now under way. Required of Juniors in Agriculture and Sugar Technology, Agriculture division. Lectures, recitations and laboratory work. Fee $1.00. First semester, 3 credits.

*Professor Krauss.*

255. **Poultry Husbandry.** A study of poultry types and breeds; their feeding, housing, marketing, and general care; the operation and care of incubators and brooders. Required of Seniors in Agriculture. Two lectures or recitations and one laboratory period a week. Fee $1.00. Second semester, 3 credits.

*Mr. Dale.*

257. **Feeds and Feeding.** A detailed study of the feeding of all kinds of farm and plantation animals. Required of Seniors in Agriculture. Lectures and recitations. Second semester, 3 credits.

*Professor Henke.*

258. **Summer Pineapple Field Practice.** Properly qualified students will be recommended for 8 weeks of summer practice work as student assistants at the Experiment Station of the Hawaiian Pineapple Canners' Association at Wahiawa. The student assistants will be under the direction of the Director of the Station and will be detailed to various activities of the Station with a view to becoming acquainted with as many aspects as possible of pineapple culture. Only students who register in
Agriculture

the Course in Agriculture, may use these credits towards graduation. Advised as prerequisite for Agriculture 260. 6 credits.

Professor Krauss.

259. FORESTRY. A study of general forestry problems, with special reference to those of the Hawaiian Islands. The course is given every other year, alternating with Horticulture. Required of Sophomores or Juniors in Agriculture. Fee $1.00. Second semester, 3 credits.

*260. PINEAPPLE PRODUCTION. A study of pineapple production in all its phases, paralleling the course in Sugar Production. Advised prerequisite: Agriculture 258. Required of Seniors in Agriculture. Fee $2.00. First semester, 4 credits.

Professor Krauss.

*261. HORTICULTURE. A general study of horticulture with special reference to the fruits and vegetables of the Hawaiian Islands. The course is given every other year, alternating with Forestry. Required of Sophomores or Juniors in Agriculture and elective for Sophomores or Juniors in Sugar Technology, Agriculture division. Fee $1.00. Second semester, 3 credits. (Not given in 1926-1927.)

Professor Krauss.

*262. APPLIED GENETICS AND BREEDING. Practical plant and animal improvement by breeding. Application of the laws and principles of genetics in their relation to crop plants and live stock, including poultry. Required of Seniors in Agriculture. Fee $1.00. First semester, 3 credits.

Professor Krauss.

263. SENIOR FIELD PRACTICE IN PINEAPPLE PRODUCTION. During the second semester of the Senior year students majoring in Pineapple Production will be required to work in the capacity of student assistants at the Experiment Station of the Hawaiian Pineapple Canners' Association at Wahiawa, under the supervision of the Director of the Station, or be sent out as assistants to the field men in charge of experimental and other work on various plantations. A full report of the work in duplicate must be submitted at the end of the semester. 16 credits.

Professor Krauss.

265. AGRICULTURAL THESIS. Advanced individual work in field and laboratory, with accompanying library work. Required of Seniors in Agriculture. Second semester, 6 to 10 credits.

Professors Henke and Krauss.

300. RESEARCH WORK. Situated in a climate where out-of-door experimental work can be carried on the year round, Hawaii affords ideal opportunities for research in tropical agriculture. First and second semesters. Credit by arrangement.

Professors Henke and Krauss.
ART

The Department of Art is provided with two laboratories, a kiln room, and a storeroom for supplies. The Drawing and Design studios are equipped with casts, drawing models, color charts, a Maxwell wheel and discs, pottery and oriental brasses for still life, an etching press, a stereopticon and illustrative material such as slides, photographs and textiles.

100. FREEHAND DRAWING. Freehand perspective; drawing in outline and in light and shade from ornamental forms, natural objects, and casts, in pencil and charcoal; composition; memory sketching. Open to regular and special students. Required of students in Home Economics. Students who have received entrance credits in freehand drawing and perspective, or have otherwise presented satisfactory evidence of preparation, are given more advanced work. Two periods studio. First and second semesters, 2 credits each.  Mr. Luquiens.

101. DRAWING AND PAINTING. The work of the course is chiefly in color; pastel, or oil if the student shows evidence of satisfactory preparation. Still life; study from the living model, head and costume; outdoor work in landscape. Prerequisite: Course 100, or corresponding qualification at the discretion of the instructor. Two periods studio. First and second semesters, 2 credits each. (Alternates with Course 210. Offered in 1926-1927.)  Mr. Luquiens.

110. COLOR AND DESIGN. Theory of color, study of color values and harmonies, making of color scales and charts; instruction in the principles and practice of design as expressed in art line, dark and light, and color; interpretation of original designs in various mediums. Lectures and laboratory work. Prerequisite: Course 100. First and second semesters, 3 credits each.  Professor Chipman.

200. COSTUME DESIGN. Art structure in its application to costume design; harmonies in spacing, rhythm, balance, and color; costume drawing; study of individual types. Brief survey of historic costume; adaptation of historic to modern costume. Lectures, illustrated with stereopticon and laboratory work. Prerequisite: Course 110. First and second semesters, 2 credits each. (Given in alternate years. Not offered in 1926-1927.)  Professor Chipman.

201. INTERIOR DECORATION. Theory and practice in the application of principles of design and color to interior decoration in relation to architecture; technical rendering of problems in line and color; study of historic styles in furniture; designing of wall hangings and other decorative objects; interpretation of designs in suitable materials. Lectures illustrated with stereopticon,
and laboratory. Prerequisite: Course 110. First and second semesters, 3 credits each. (Alternates with Course 202. Not offered in 1926-1927.)  
Professor Chipman.

202. CERAMIC DESIGN AND PORCELAIN DECORATION. Study of the principles of proportion and subordination which govern line and area composition and their application to specific problems in original design; discussion of the methods of pottery and porcelain manufacture and of the composition of ceramic colors, glazes, lustres, and metals; study of historic ceramics; consideration of good shapes in porcelain; application of original design to suitable porcelain forms in mediums adapted to the ware used; practice in the firing of ceramic ware. Lectures and laboratory. Prerequisite: Course 110. First and second semesters, 3 credits each. (Alternates with Course 201. Offered in 1926-1927.)  
Professor Chipman.

203. ADVANCED CERAMIC DESIGN AND PORCELAIN DECORATION. An opportunity is afforded to advanced students who have taken Course 202 to continue their work for a second year for credit, at the discretion of the instructor. First and second semesters, 3 credits each. (Offered in 1926-1927.)  
Professor Chipman.

210. ETCHING. A study of the technical methods of etching, including line etching and dry point, and, for students who so wish, soft ground, aquatint, etc. Work will be chiefly in landscape, but ample opportunity will be given advanced students to follow their own preferences in subject and treatment. Press and other permanent equipment furnished by University. Prerequisite: Course 101, or corresponding qualification. Students are requested to confer with instructor before registering. Two periods, studio and outdoor work. First and second semesters, 2 credits each. (Alternates with Course 101. Not offered in 1926-1927.)  
Mr. Luquiens.

211. ADVANCED PAINTING OR ETCHING. An opportunity is offered to advanced students who have taken either Course 101 or Course 210 to continue their work in either line for a second year for credit, at the discretion of the instructor. First and second semesters, 2 credits each.  
Mr. Luquiens.

250. HISTORY OF ARCHITECTURE. Study of the development of architectural styles of the ancient Egyptians, Chaldeans, Greeks, and Romans, and of the Mediaeval (Byzantine, Romanesque, Gothic) and Renaissance periods. Consideration of conditions, materials, etc., in their effect upon architecture. Lectures illustrated with stereopticon; recitation and assigned reading. Each student is required to have a set of prints selected from the University Prints Series. First semester, 2 credits. (Given in alternate years. Offered in 1926-1927.)  
Professor Chipman.
251. History of Sculpture and Painting. Historical and appreciative study of ancient and mediaeval sculpture and of the great schools of painting. Discussion of principles of art structure and composition in relation to the masterpieces. Lectures illustrated with stereopticon; recitation and assigned reading. Each student is required to have a set of prints selected from the University Prints Series. Prerequisite: Course 250. Second semester; 2 credits. (Given in alternate years. Offered in 1926-1927.) Professor Chipman.

N. B.—All work of students remains in the department during the college year. The University reserves the right to retain for a period of two years such work as it may select, and to keep permanently one piece of each student's work. Credit will be given for extra work above that required in the outlined courses.

BOTANY

The University of Hawaii offers remarkable advantages for the study of botany in all its branches. There is no dormant season, so that specimens may be collected and experimental work in the field may be performed at any time. This enables the student to observe and study plants under natural conditions, thus increasing the interest in and adding to the value of the work.

The laboratories are fully equipped with microscopes and accessories, apparatus, chemicals, stains and other supplies necessary to botanical work. Water, gas and electricity are all at hand.

Attention is especially directed to the opportunities presented for work along special lines and for research. The accessibility of the coral reefs facilitates the collection of marine algae for systematic work and presents a great opportunity for the study of marine ecology.

The continuity of the growing season permits work to be carried on throughout the year. Conditions peculiar to the Islands introduce a number of special problems in tropical agriculture and horticulture, in addition to general problems, thus making plant physiology a particularly inviting field for study. The physiological equipment includes apparatus for the study of respiration, oxidase and catalase activity, hydrogen-ion concentration by electrometric or colorimetric methods, electrical conductivity, and cryoscopic determinations so that physiological investigations may be carried on by the most exact methods.

The great diversity of environmental conditions within a range of a few miles offers excellent advantages for the study of ecology or for ecological research, particularly in plant succession.

The unusually high percentage of endemic plants in the Hawaiian flora makes the study of systematic botany very attractive. The University offers an exceptional opportunity in
The Herbarium of the University of Hawaii, in the custody of the Bishop Museum, contains the most nearly complete collection of Hawaiian plants in existence, including specimens of species which have already become extinct. The portions of the types and the co-types of plants described by Dr. W. Hillebrand, together with the types of new species, form the most valuable part of the herbarium. The former are part of an assortment of about a thousand sheets of Hawaiian plants secured by Professor Rock from the Berlin Botanical Museum, where the Hillebrand collection is deposited. In addition, portions of the types of Hawaiian plants described by Dr. Asa Gray were also secured from the Harvard Herbarium, and photographs of other Hawaiian specimens in the Harvard, Berlin, Vienna, and Paris museums were taken. Recently the herbarium has obtained duplicates of the plants collected in Hawaii by the Galatea Expedition in 1842; also of Hawaiian plants collected by A. A. Heller in 1895. Besides the Hawaiian collection the herbarium possesses a set of plants collected on the Galapagos Islands by the California Academy of Science Expedition; also specimens from Australia, the Philippines, Java, Ceylon, Cuba, Mauritius, South and Central America, and New Zealand.

The library of systematic botany contains nearly all the atlases and texts of early voyages, and is practically complete as far as the original descriptions of Hawaiian plants are concerned. This, with the completeness of the herbarium, makes possible the preparation of monographs on various groups of Hawaiian plants. The library further includes such works as Maritius' Natural History of Palms, the Flora Brasiliensis, many works on continental as well as insular floras, Das Pflanzenreich and several periodicals.

101. GENERAL BOTANY. A study of the organization of the plant body of seed-bearing plants. The structure of the members of the plant body, the relation of form to function and adjustment to external conditions are given special attention during the first semester. This is followed in the second semester by a brief survey of the principal groups from algae to seed-bearing plants with a study of the life history of representative forms. The evolution of the vegetative and reproductive organs of the plant as related to the habitat is given special attention. Two periods laboratory and one hour lecture or recitation a week. Fee $1.00 per semester. First and second semesters, 3 credits each.

Professor Bergman and Mr. Degener.

102. ELEMENTARY SYSTEMATIC BOTANY. A study of native and introduced plants, especially with reference to characters
which are useful in determining their identity. Practice in the use of keys for identification and in the recognition of the more common forms and families on sight is emphasized. Two or more periods laboratory or field and one hour lecture or recitation a week, with assigned reading. Prerequisite: Botany 101. First and second semesters, 3 or more credits each.

Mr. Degener.

106. **Plant Physiology.** A study of the physiological activities of the plant, such as absorption, translocation, synthesis of food materials, respiration, growth, and reproduction. Text: Duggar's "Plant Physiology." Prerequisite: Botany 101. Two periods laboratory and one hour lecture or recitation a week. Fee $2.00 per semester. First and second semesters, 3 credits each.

Professor Bergman.

107. **Histological Technique.** A course in the preparation of permanent microscopic mounts of plant tissues. Includes methods of killing, fixing, embedding, sectioning, staining and mounting of tissues of various kinds. Supplements Courses 153 and 209. Valuable to students in plant breeding who are interested in the study of physical basis of heredity. Prerequisite: Botany 101. Six to twelve hours laboratory per week. Fee $3.00. First semester, 2 to 4 hours credit.

Professor Bergman.

151. **General Bacteriology.** An introductory course on the morphology and physiology of bacteria and the relation of these organisms to household and industrial processes and to sanitation. The preparation of culture media, methods of isolation and the study of cultural characteristics. Text: Buchanan, "Household Bacteriology." Prerequisite: Botany 101 or one year of Zoology. One hour recitation or lecture and six hours laboratory per week. A general fee of $2.50, together with a breakage deposit of $5.00 is required in this course. Second semester, 3 credits. (Offered in alternate years. Given in 1926-1927.)

Professor Bergman.

153. **Elementary Plant Pathology.** A systematic study of plant diseases. The morphologic characters, life history and methods of control. Text: Duggar's "Diseases of Plants." Prerequisite: Botany 101. Two periods laboratory and one hour lecture or recitation a week. Fee $2.50. Second semester, 3 credits. (Offered in alternate years. Not given in 1926-1927.)

Professor Bergman.

203. **Plant Ecology.** A study of plants in relation to the environment. The use of exact methods in the measurement of factors of the environment and of the effect of these factors on the plant. Studies in migration, invasion, competition and dominance in relation to plant succession, and the use of exact
methods of determining the composition of the plant community. Prerequisites: Botany 101, 102, 106 and 209. Two or three periods field or laboratory with one hour lecture or recitation a week and assigned reading. Fee $2.00 per semester. First and second semesters, 2 or 3 credits each. (Offered in alternate years. Not given in 1926-1927.)

Professor Bergman.

208. ADVANCED PLANT PHYSIOLOGY. An experimental study of the processes of nutrition and growth of plants, with collateral reading and conference. Text: Palladin, "Physiology of Plants." Prerequisites: Botany 101 and 106 and organic chemistry. Two or three laboratory periods per week. Fee $3.00 per semester. First and second semesters, 2 or 3 credits each.

Professor Bergman.

209. PLANT ANATOMY. A study of the structure of vascular plants. The origin and differentiation of tissues and the relation of structure to function are emphasized. Text: Stevens', "Plant Anatomy." Prerequisite: Botany 101; Botany 107 desirable but not required. Two laboratory periods and one hour recitation a week with assigned reading. First and second semesters, 3 credits each.

Professor Bergman.

300. BOTANICAL RESEARCH. Open to students who show sufficient preparation and ability to carry on studies of an investigational nature. Hours and credits to be arranged.

Professor Bergman and Mr. Degener.

CHEMISTRY

The chemical laboratories are well equipped with apparatus and supplies for work in general chemistry, qualitative analysis, elementary and advanced quantitative analysis, organic chemistry, physical chemistry, sugar technology, and for chemical research. To specify somewhat in detail, the laboratories are supplied with platinum ware, volumetric apparatus, chemical balances, apparatus for gas and oil testing and for food analysis, a bomb calorimeter, polariscopes, spectrosopes, refractometers, and apparatus for work in physical chemistry. Gas, water, and electricity are all at hand, and the equipment of desks and hoods is well adapted to present needs.

101. GENERAL CHEMISTRY. An elementary course in general chemistry, for students without previous training in the subject, designed to serve either as a foundation for further work in chemistry or as a brief survey of the science for those who do not intend to take further work in chemistry. Students who receive entrance credit in chemistry will not be given University credit in this course. Three hours class room and one period
laboratory a week. Fee $1.50 per semester; breakage deposit, $2.50 per semester. First and second semesters, 4 credits each.  

Professor Wrenshall.

102. Advanced Inorganic Chemistry. Designed to qualify students who have had chemistry in preparatory schools for advanced work in chemistry, or to serve as a comprehensive survey of the science. Fundamental theories and laws of chemistry are emphasized. The last month in the course is devoted to qualitative analysis and the principles of theoretical chemistry upon which it is based. Experimental lectures, recitations, and laboratory work. Texts: “General Chemistry,” by Deming; “Exercises in General Chemistry,” by Deming and Arenson; and “Outline of the Methods of Qualitative Chemical Analysis,” by Carney. This course may not be taken for credit by students who have received credit for Chemistry 101. Prerequisite: a previous course in elementary chemistry. Three hours class room and one laboratory period a week. Fee $1.50 per semester; breakage deposit $2.50 per semester. First and second semesters, 4 credits each.  

Assistant Professor Bilger.

105. Organic Chemistry. The Aliphatic and Aromatic Series. Lectures, collateral reading, discussions, and frequent quizzes. For those who specialize in chemistry and sugar technology this is accompanied by the laboratory course. Text: Perkin and Kipping's “Organic Chemistry.” Prerequisite: Chemistry 101 or 102. Three hours classroom a week. First and second semesters, 3 credits each.  

Professor Wrenshall.

106. Organic Chemistry Laboratory. To be taken in conjunction with Chemistry 105. A study of the preparation, separation and analysis of a number of organic compounds. One period laboratory a week. Text: West’s “Experimental Organic Chemistry.” Fee $4.00 per semester; breakage deposit $5.00 per semester. First and second semesters, 1 credit each.  

Professor Wrenshall.

124. Qualitative Analysis. A course in systematic qualitative analysis covering the characteristic reactions, detection, and separation of the common basic and acidic ions. Methods for the solution and analysis of solid unknowns are also included. In the lecture period the fundamental principles of theoretical chemistry and reactions involved in the analysis are studied. Texts: “Qualitative Chemical Analysis,” by A. A. Noyes, and “The Elements of Qualitative Chemical Analysis,” Volume I, by Stieglitz. Prerequisite: Chemistry 101 or 102. One lecture and two periods of laboratory a week. Fee $3.00 per semester; breakage deposit $5.00 per semester. First and second semesters, 3 credits each.  

Assistant Professor Bilger.
211. **Physical Chemistry.** An introductory, non-mathematical course in the general principles of theoretical chemistry, including the study of pressure-volume relations of gases, theories of solution, homogeneous chemical equilibrium, phase rule, colloids, thermochemistry, electrochemistry, and the modern theories of the constitution of matter. Text: "Physical Chemistry for Colleges," by Millard. Prerequisite: Chemistry 124 and 230. Two hours class room a week. First and second semesters, 2 credits each.

Assistant Professor Bilger.

212. **Physical Chemistry Laboratory.** A series of laboratory exercises in the practice of physical chemical methods. Open to students who have completed or are taking Chemistry 211. Text: "Laboratory Manual of Physical Chemistry," by Davidson and Van Klooster. Prerequisite: Chemistry 124 and 230. Permission to take Chemistry 212 must be obtained from the instructor before registration. One laboratory period a week. Fee $1.50 per semester; breakage deposit $5.00 per semester. First and second semesters, 1 credit each.

Assistant Professor Bilger.

215. **Chemical Literature.** A library course in which articles appearing in current chemical periodicals are studied. Prerequisites: Chemistry 101 or 102, 124 and 230. To be taken in conjunction with Chemistry 216. One hour classroom a week. First and second semesters. 1 credit each.

Professors Dillingham, Wrenshall and Asst. Professor Bilger.

216. **Advanced Quantitative Analysis.** Analysis of special substances, such as foodstuffs, soils, fertilizers, ores, iron, steel, water, etc. Prerequisites: Chemistry 101 or 102, 124, and 230. Three periods laboratory a week. $5.00 per semester; breakage deposit $5.00 per semester. First and second semesters, 3 credits each.

Professors Dillingham, Wrenshall, and Asst. Professor Bilger.

230. **Quantitative Analysis.** The principles of gravimetric and volumetric analysis, including laboratory practice in calibration of glassware, determination of the constants of the balance, and the analysis of pure substances and commercial products. Text: "Quantitative Chemical Analysis," by Talbot. Prerequisites: Chemistry 102, or 101 and 124. One hour classroom and two periods laboratory a week. First and second semesters, 3 credits each.

Professor Wrenshall.

*260. **Biological Chemistry.** A course consisting of lectures, recitations, supplementary reading, and laboratory periods dealing with the chemistry of food constituents, plant and animal life and nutrition. Prerequisite: Chemistry 102, or 101 and 124.
and first semester of 105. Two hours classroom and one laboratory period a week. Fee $2.00; breakage deposit $3.00. First semester, 3 credits. 

*261. AGRICULTURAL CHEMISTRY. A course consisting of recitations, supplementary reading and laboratory periods dealing with the chemistry of soils, fertilizers, foods and insecticides. Prerequisites: Chemistry 260 and its prerequisites. Two hours classroom and two laboratory periods a week. Fee $3.00; breakage deposit, $5.00. Second semester, 4 credits.

Professor Dillingham.

310. COLLOID CHEMISTRY. An introduction to the chemistry of colloids. Chiefly laboratory work with occasional lectures, class discussions, and conferences. Assigned readings in various standard text books on colloids and also in the chemical journals with written reports are required. Open to students who have completed or are taking Chemistry 211. Text: "Laboratory Manual of Colloid Chemistry," by Holmes. Prerequisite: Chemistry 124 and 230. Permission to take Chemistry 310 must be obtained from the instructor before registration. Fee $2.00 per semester; breakage deposit $5.00 per semester. First and second semesters, 1 credit each. (Alternate years. Not offered 1926-1927.) Assistant Professor Bilger.

318. CHEMISTRY RESEARCH. The preparation of a thesis on some subject in pure or applied chemistry. Elective course, particularly for graduate students. Hours and credits to be arranged. Professors Dean, Dillingham, Wrenshall, and Asst. Professor Bilger.

CHINESE


200. THIRD YEAR CHINESE. Readings of short stories and newspaper articles, simple poems and proverbs; letter-writing and translation. Texts: Yang's "Letters in Pei Hua Style" and "The New Citizen." First and second semesters, 3 credits each. Professor Lee.
201. CLASSICAL LITERATURE. Study of the selected works of Confucius, Mencius and several authors of Han, Tang, Sung, Ming and Tsing Periods; translation and composition. Texts: Legge's "The Confucian Four Books," and Sung's "Wen Hua Tsin Liang." Prerequisite: Chinese 200 or its equivalent. First and second semesters, 3 credits each. **Professor Lee.**

CIVIL ENGINEERING

(See Engineering)

COMMERCE

150-151. ELEMENTARY ACCOUNTING. A study of the fundamental principles of accounting supplemented by practice in the solution of problems. The proprietorship equation; principles of debit and credit and their application to the balance sheet and the profit and loss statement; controlling accounts, and the use of the simple columnar journals; a brief introduction to the corporate form of organization. First and second semesters, 3 credits each. **Assistant Professor Van Winkle.**

250-251. INTERMEDIATE ACCOUNTING. The principles and practice of accounting in relation to the corporation. Accounting for capital stock, bonds, and sinking funds; theory and practice of depreciation, capital and revenue expenditures, and special reserves. Preparation of the balance sheet and profit and loss statement for managerial use. Prerequisite: a grade of at least 70 in Commerce 151. First and second semesters, 3 credits each. **Assistant Professor Van Winkle.**

252-253. ADVANCED ACCOUNTING. A study of certain material not covered in the preliminary courses, such as, the consolidated balance sheet and income statement, budgetary control, and the analysis of financial statements. Particular emphasis will be placed upon the relation of accounting to management. In addition, the student will be given further practice in the solution of C. P. A. and similar problems covering the general field of accounting theory and practice. Prerequisite: A grade of at least 70 in Commerce 251. First and second semesters, 3 credits each. **Assistant Professor Van Winkle.**

*260-261. BUSINESS LAW. Lectures and Reading. First and second semesters, 2 credits each. (Not given 1926-1927.) **Mr. Steadman.**

262. BUSINESS MANAGEMENT. An analysis of the legal types of organization; plant location; forms in organization manage-
70 Commerce

ment; personnel administration—labor problems, wage scales; scientific management; a survey of the problems of large scale production. Prerequisites: Junior standing and Economics 150-151. First semester, three credits. 

Mr. Tilton.

263. Corporation Finance. A study of the corporate form of organization. Corporate instruments; methods of financing; sale of securities; combinations and consolidations; the relation of the corporation to the stockholder, the bondholder, the general creditor, and the outside public; the stock exchange. Prerequisites: Commerce 150-151. Three credits, second semester. Assistant Professor Van Winkle.

270-271. Marketing. Functions of marketing; transportation, finance, and agricultural credit in particular; Marketing Systems, direct, indirect, and cooperative; Marketing Agencies, a discussion of middlemen and their functions; price; organized exchanges; forecasting; risk assumption and hedging. Second semester—Analysis of general, specialty, department, and chain stores, and mail order houses. The major part of the course is devoted to practical problems with special reference to wholesale and retail trade; brands, trademarks, advertising, and price policies. Prerequisites: Junior standing and Economics 150-151. Prescribed for students in Commerce. First and second semesters, 3 credits each. Mr. Tilton.

272. Sales Management. A course devoted to analyzing the essentials of a good sales organization, and dealing with the salesmanager, his relation to factory, product and market; price-making and price protection; selection of salesmen; training, equipment; territory; compensation; contests; conventions and conferences; meeting competition; types of sales strategy; principles of selling service; selling cost and expense; sales budgeting; interlocking selling and advertising effort. Practical illustrative problems. First semester, 2 credits. (Not given 1926-1927.) Mr. Tilton.

273. Advertising. Special emphasis is devoted to the nature, purpose, and structure of advertising copy; psychological problems involved; mediums; principles of size and position; display; form; border; color; illustration; type principles; arrangement; methods of testing; outdoor and foreign advertising. Second semester, 3 credits. (Not given 1926-1927.) Mr. Tilton.

*274-275. Foreign Trade. Principles of foreign trade, past and present; governmental aid; commercial treaties; a detailed discussion of the tariff and tariff making; trade and trade routes of the world; balances of trade; invisible exports and imports; elements of foreign exchange. Second semester—Practical exporting; export sales organization, sales methods; financing, credits
and collections; technical papers in export procedure; detailed problems in exporting and importing. Prerequisites: Junior standing and Economics 150-151. First and second semesters, 3 credits each.  

Mr. Tilton.

276. Retail Merchandizing. Consideration is given to retail selling methods and store management, with particular reference to local conditions. Attention will be given to store personnel problems; employee turnover; wages and education of salespeople; store location and rent factors; merchandise classification and control; layout and arrangement of displays; stock-turn; advertising; branded and trade-marked goods; determination of most profitable lines; costs of distribution; price policies; credit; financial features; returned goods; delivery; general administrative problems. First semester, 2 credits. (Not given 1926-1927.)

Mr. Tilton.

291. Statistics. Statistical indices of business conditions; averages and means of determination; graphic presentation; methods of eliminating seasonal variation and secular trend; moving averages; dispersion, skewness, correlation; internal and external financial and business statistics; index numbers; weekly problems. Prerequisite: Junior standing. Recommended to commerce students. Second semester, 3 credits.  

Mr. Tilton.

ECONOMICS

150-151. Elements of Economics. An introductory course. Organization of production; price; distribution. First and second semesters, 3 credits each.

First semester, Assistant Professor Van Winkle and Mr. Tilton.  
Second semester, Professor Adams.

252. Introduction to Economics. A course open to Junior and to Senior students in Agriculture, Civil Engineering and Sugar Technology. Students can not receive credit for both this course and course 150-151. First semester, 3 credits. (Not given in 1926-1927.)  

Assistant Professor Van Winkle.

260. Money and Banking. A study of the problems centering around the use of money and credit. Prerequisite: Economics 150-151. Second semester in 1926-1927, 3 credits.

Professor Adams.


Professor Adams.

262-263. Practical Banking. A course in actual work in the Bank of Hawaii and under the direction of the officers of the
Students will be given an opportunity to learn the varied sorts of banking procedure, receiving promotion to new kinds of work as their practical efficiency and other conditions may warrant. Students will work two afternoons of each week from one o'clock till the books are balanced. Open only to students who have credit in or are registered in Economics 260 and who are recommended by the professor of economics and accepted by the bank. Reports of progress will be required monthly. Two credits each semester.

Professor Adams.

270. Transportation. Ocean, rail, and inland water transportation. Prerequisite: Economics 150-151. First semester, 3 credits. (Not given in 1926-1927.)

Professor Adams.

*281. Labor. A study of legal and social aspects. Prerequisite: Economics 150-151. Second semester, 3 credits. (Not given in 1926-1927.)

Professor Adams.

EDUCATION

In view of the complex social situation, the peculiar vocational, economic, and political conditions, and the comparative isolation of this Territory, the importance of Public Education can hardly be over-estimated. The purpose of the courses in Education and Psychology is to furnish a background of theory and practice which shall prepare the student for effective service in the educational, social, or economic fields as teacher, welfare worker, or employment manager. Specifically it is intended to provide professional training for departmental teachers in junior and senior high schools, and administrators for elementary and secondary schools.

At the present time the Department of Education is prepared to train teachers for junior and senior high schools only.

High school authorities are now demanding that their teachers have professional training in addition to a general education, therefore students looking forward to teaching are advised of the necessity of fitting themselves for this work. Each prospective teacher will be expected to earn at least six units of credit in Psychology, exclusive of Psychology 151, and fourteen in Education including the Principles and Practice of Teaching and the Principles of Secondary Education. In case of previous successful teaching experience the five-hour requirement of practice teaching may be waived.

In addition it is urged that English 205 be taken, as ability in public speaking is invaluable in the teaching profession. In fact a thorough command of both oral and written English is so essential in teaching that students who have defects in either are seriously advised not to consider teaching as a career. Every student
should be equipped to teach two subjects in the secondary school and therefore should concentrate on these subjects during the university course. In each case the amount and quality of the work required in the teaching subjects will be determined by the Department of Education and the other Departments concerned.

As the University is desirous of correlating its work as far as possible with that of the public and private schools an effort will be made to arrange advanced courses for properly qualified teachers-in-service when there is sufficient demand for such courses.

151. INTRODUCTION TO EDUCATION. This course is intended for beginning students in Education and others who may be interested in the field even though they are not looking forward to the teaching profession. The aim is to give the student a survey of the broad field of Education. Treatment is given to such topics as teaching as a profession, public school organization, the curriculum, great educational leaders, the historical background of American education, scientific principles of child training, etc. Not open to first year students. Second semester, 3 credits.

Professor Livesay.

250. EDUCATIONAL MEASUREMENTS. Principles of test construction, use of tests and scales in the administration and supervision of instruction, pupil diagnosis on the basis of test scores, etc. Simple graphical and statistical methods introduced and developed as needed. Prerequisites: Education 150 and Psychology 250. First semester, 2 credits. (Not offered in 1926-1927.)

Professor Livesay.

251. PRINCIPLES OF SECONDARY EDUCATION. This course deals with the sociological and psychological principles which are fundamental to the present organization, administration, and selection of subject matter of the secondary school. The nature of the adolescent, the historical development of secondary education, secondary education in other countries, the place of the various subjects in the high school program, curriculum organization, and other major topics are considered. Prerequisites: Education 150 and Psychology 250. Second semester, 3 credits.

Professor Livesay.

252. PRINCIPLES OF TEACHING IN SECONDARY SCHOOLS. A treatment of the application of psychological principles to classroom procedure. The course covers such topics as diagnosis of pupils, motivation, lesson planning, discipline, teaching pupils to think, testing, and supervised study. Systematic visits to secondary schools will be required as part of the course. Limited to seniors and graduate students who have completed twelve semester hours in education and psychology. First semester, 3 credits.

Professor Livesay.
253. **Practice Teaching in Secondary Schools.** Practice in teaching in secondary schools in Honolulu. An arrangement exists between the Department of Education and the Department of Public Instruction whereby qualified students may have opportunity to do practice teaching in McKinley High School. Certain private secondary schools also provide opportunity for practice teaching. Usually this involves the responsibility of a class or group for the remainder of the year. Conferences will be held frequently during the semester. During the semester when practice teaching is carried on no student should take more than 13 semester hours, exclusive of Education 253, two of which must be Psychology 251. Credit for this course is not granted if the student has previously held a responsible teaching position for pay. Open only to those who have had Education 252 in the first semester of the same year. Second semester, 5 credits.

*Professor Livesay.*

**Engineering**

**Drawing.** The drafting-room equipment includes a number of first-class adjustable tables and desks, fitted with all accessories, complete for work; also an extensive outfit for blue printing, and many special instruments, such as parallel attachments for tables, railroad curves, splines, protractors, planimeters, special scales, drafting machines, and computing instruments.

**Testing Laboratory.**—The University maintains a laboratory for testing materials of construction, including wood, iron, steel, and cement, and also provides facilities for fuel testing. The equipment of the testing laboratory includes a 150,000 lb. capacity Riehle universal testing machine, for tension, compression, and transverse tests of large specimens; a small 10,000 lb. capacity Riehle machine for testing specimens in transverse strain; a 20,000 lb. capacity Olsen universal testing machine for tension and compression tests of small specimens; an Olsen torsion machine for torsion tests up to 50,000 in.-lbers.; an Olsen apparatus for making the Brinell hardness test; a special Olsen machine of 40,000 lbs. capacity for compression tests of cement and concrete cubes; and a standard Riehle 2,000 lb. machine for briquettes. These machines are provided with a complete assortment of the necessary special instruments, such as extensometers, compressometers, deflectometers, and gages, thus making possible the accurate measurement of deformation over a wide range of tests. In addition to the above, the testing laboratory also includes an extensive equipment of molds, sieves, Vicat needles, moist closets, drying ovens, and other minor accessories necessary to carry out practical tests of cements and concrete in any of the usual forms.
A section of the laboratory is fitted with the essential apparatus for the physical testing of road materials. This equipment includes a Page impact machine, Dorry hardness machine, Deval abrasion machine, Page briquette-forming machine, together with core drills, sieves and miscellaneous asphalt-testing apparatus.

Library. In connection with the regular courses of instruction, students in engineering are encouraged and required to make frequent use of the library. The library contains a large and well selected collection of standard technical books, besides many periodicals pertaining especially to engineering. The collection includes sets of Transactions and Proceedings of the four National Engineering Societies, together with bound volumes of the Engineering News back to and including the year 1876, which, taken together, constitute an excellent working library of current practice in each of the main branches of engineering.

CIVIL ENGINEERING

C. E. 101. SURVEYING. Plane surveying, supplemented by lectures and drafting-room exercises. The use of the chain, tape, transit and level, and practice in the manipulation of these instruments in the field. The drafting-room work includes practice in the computations that the surveyor is called upon to make, and plotting from original notes. Text: Breed and Hosmer’s “Principles and Practice of Surveying,” Vol. 1. Prerequisites: M. D. 101, Mathematics 104 or 150 and 151. Required of Freshmen in Civil Engineering and Sugar Technology, Sugarhouse Engineering division; Sophomores in Sugar Technology, Agricultural division. Elective for Sophomores in Agriculture, General Science and Sugar Technology, Chemistry division. $2.00 per semester. Two field or drafting periods and one recitation. First and second semesters, 3 credits each.

Professor C. Andrews.

C. E. 125. ROADS AND PAVEMENTS. Lectures, laboratory, practice in testing materials of road construction, and inspection of local types of pavements. The lecture work covers the construction and maintenance of various types of roads and city pavements, special reference being made to local types. Prior to inspection trips, the specifications under which the road to be visited was built are studied. In the laboratory the student becomes familiar with the type machines used in testing road materials and the methods of performing such tests. Text: Blanchard and Drowne’s “Textbook on Highway Engineering” and Besson’s “City Pavements.” Prerequisites: C. E. 101 and M. D. 101. Sophomores in Civil Engineering. $2.00 per semester. First and second semesters, 2 credits each. Professor Keller.
C. E. 201. Surveying and Drawing. Recitation and field and drafting work, covering the various methods of making and plotting topographical surveys, including the theory and use of the plane table, stadia, sextant, and solar attachment to the transit. Students are required to make and reduce observations illustrating the methods of base line measurement, triangulation, and precise leveling. Text: Breed and Hosmer’s “Principles and Practice of Surveying,” Vol. II, and Leland’s “Practical Least Squares.” Prerequisites: Mathematics 106 and C. E. 101. Juniors in Civil Engineering. $2.00 per semester. First and second semesters, 3 credits. (Alternates with C. E. 227. Not given in 1926-1927.)

Professor C. Andrews.

C. E. 227. Surveying. Railroad surveying, construction, and economics. Field work and recitations, covering the methods of establishing grade lines, laying out circular and transition curves, the reconnaissance, preliminary and location surveys for a railroad; earth work computation, maps, profiles; plans of structures and estimates. Texts: Willard’s “Maintenance of Way and Structures;” Cain’s “Earth Pressure, Walls and Bins;” Searles’ & Ives’ “Field Engineering.” Prerequisites: C. E. 101, Mathematics 106. Seniors in Civil Engineering. $2.00 per semester. First and second semesters, 3 credits each. (Alternates with C. E. 201. Given in 1926-1927.)

Professor C. Andrews.

* C. E. 229. Municipal Engineering. Lectures and recitations, including the general principles and methods of construction and cost; city water supply; waterworks, and fire protection; the methods of sewage and garbage disposal; the hydraulics of sewers; the relation of rainfall to storm flow. Part of the course is devoted to municipal transportation problems now handled by the various public service commissions. Texts: Turnearue & Russell’s “Public Water Supply”; Metcalf & Eddy, “Sewerage and Sewage Disposal, a Textbook”; Engineering Periodicals and U. S. Government Reports. Seniors in Civil Engineering. First and second semesters, 3 credits each.

Professor Keller.

* C. E. 252. Analytical and Applied Mechanics. The fundamental principles of the various branches of applied mechanics, and the use of higher mathematics in the solution of problems relating to engineering work. Includes the study of analytical statics, composition and resolution of forces, application to rigid bodies, centers of gravity, centers of mass, friction, work, flexible cords, funicular polygon, and the catenary, together with a large number of problems to illustrate special and general methods of solution. The analytical theory of kinetics is developed and special attention is given to the laws of motion, vari-

Professor C. Andrews.


Professor C. Andrews.

C. E. 255. HYDRAULICS. Lectures and recitations covering the more important principles of hydraulics which govern and treat of fluids at rest, hydrostatic pressure, manometers, and Pitot tube, Venturi meter, strength of pipes, pressure of water against walls and dams, earth pressure, barometric leveling, flow of liquids through pipes and over weirs, fluid friction, loss of head, flow of water in open channels, Kutter's formula, impulse and resistance of fluids, the Pelton water wheel, overshot, breast and undershot wheels; turbines and reaction wheels, and the general practice of turbine testing. The laboratory practice includes the gauging and measurement of flow in channels and over weirs, tests of water motors of various types, tests of hydraulic rams, and pumping machinery of various kinds. Text: Daugherty's "Hydraulics." Prerequisite or parallel: C. E. 252 and 253. Juniors in Civil Engineering and Sugar Technology, Sugar-house Engineering division. Second semester, 3 credits.  

Professor Keller.

C. E. 257. IRRIGATION ENGINEERING. An elementary course which covers the laws governing rainfall, evaporation and run-off, followed by a study of the methods of distributing irrigation water, the losses involved and the amount of water required to irrigate various crops. This course, although primarily designed for engineers, is open to properly prepared students electing other courses. Texts: Meyer's "Hydrology", also government pamphlets. Prerequisite or parallel: C. E. 255. Juniors in Civil Engineering. Second semester, 2 credits.  

Professor Keller.

C. E. 276. STRUCTURAL DESIGN. Lectures and drafting exercises, in which the student computes the stresses and designs the
members of a plate girder bridge and a steel building truss. Includes the making of complete detail drawings and specifications, done under close supervision and carefully checked. The important general points are covered by lectures, minor points being taken up with individual students during the progress of the work. Text: Hool & Kinne "Stresses in Framed Structures" and "Structural Members and Connections." Seniors in Civil Engineering. First semester, 3 credits.  

Professor Young.

C. E. 277. BRIDGE DESIGN. Lectures and drafting exercises following C. E. 276 and covering the complete design of a single track through bridge for a given conventional loading, and including all computation, the making of complete engineer's drawings, and the specifications. Text: Hool & Kinne "Steel and Timber Structures." Seniors in Civil Engineering. Second semester, 3 credits.  

Professor Young.

C. E. 279. CONCRETE AND MASONRY STRUCTURES. The properties of stone, brick, and concrete, and their uses in engineering structures, such as foundations, retaining walls, piers, abutments, and dams; including the design of arches and dams in stone, and the design of reinforced concrete structures, such as beams, girders, columns, floor slabs, and highway bridges. Lectures and drawing-room work, supplemented by library reference. Texts: Hool's "Concrete Construction," Vols. I, II, III. Prerequisites: C. E. 201, 252, and 253. Seniors in Civil Engineering. Second semester, 3 credits.  

Professor Young.

C. E. 280 or 281 (may be taken either semester). WATER ANALYSIS. A laboratory course which covers the standard methods of making physical, chemical and bacteriological examinations of water and sewage. Texts: American Public Health Standard Methods. Prerequisite or parallel: C. E. 229. Elective for Seniors in Civil Engineering. Either semester, credits to be arranged.  

Professor Keller.

C. E. 282. HYDRAULIC CONSTRUCTION. Lectures, recitations and reports covering the more important hydraulic constructions. The work is divided into three parts, as follows: water storage, including reservoir capacity, available sources of supply, the design of spillways and flood channels; irrigation engineering, including methods of distribution, construction of flumes, tunnels, and ditches, and also touching upon the agricultural problems involved; harbor engineering, including a study of various types of wharves, methods of dredging, and harbor improvement. Prerequisites: C. E. 252, 253 and 255. Seniors in Civil Engineering. First semester, 2 credits.  

Professor Keller.

*C. E. 287. ARCHES. Design and investigation of the stability of masonry and reinforced concrete arches. Lectures and
drafting exercises, covering the design of a typical masonry arch bridge, and the drawing of equilibrium polygons for various loadings. Prerequisite: C. E. 253. Elective for Seniors in Civil Engineering. Second semester, 2 credits.

Professor C. Andrews.

DRAWING AND MACHINE DESIGN (M.D.)

M. D. 101. MECHANICAL AND FREEHAND DRAWING. Elementary drafting, which includes freehand sketching, freehand lettering, use of instruments, conventional sections, drawing from copies and models (using parts of machines from the mechanical laboratory as models), the making of shop drawings, shading, tracing and blue-printing; in which particular attention is given to lettering, general neatness, and accuracy. Text: French's "Engineering Drawing." The cost of materials and instruments required is about $50.00. First and second semesters, 2 credits each.

Professors C. Andrews and E. C. Webster.

M. D. 103. DESCRIPTIVE GEOMETRY AND LETTERING. An elementary course in practical descriptive geometry designed for entering students in engineering who offer for entrance two or more years of mechanical drawing and who satisfactorily pass a test given as first exercise in mechanical drawing, M.D. 101. Freshmen satisfactorily completing this course will receive advanced work in descriptive geometry and elementary work in kinematics in place of the regularly scheduled work for sophomores in M. D. 133. First and second semesters, 2 credits each.

Professor E. C. Webster.

M. D. 133. DESCRIPTIVE GEOMETRY. Descriptive geometry, with special reference to its application to practical work in the drafting office, embracing lectures and drafting-room practice in which a large number of problems of a practical nature are worked out. Prerequisite: M. D. 101 and Mathematics 104. Sophomores in Engineering and Sugar Technology, Sugar-house Engineering division. First and second semesters, 2 credits each.

Professor E. C. Webster.

MECHANICAL ENGINEERING (M.E.)

M. E. 129. OFFICE AND SHOP METHODS. Lectures, drafting and shop inspections. Lectures familiarizing the students with the type and use of machines and tools used in pattern, woodworking, forge and machine shops. The laboratory work consists of inspections of typical local shops and practice in estimating. The elements of Graphical Statics are taken up in the second semester. Prerequisite: M. D. 101. Sophomores in
Civil Engineering and Sugar Technology, Sugar-house Engineering division. First and second semesters, 2 credits each.

Professor C. Andrews.

M. E. 252. MATERIALS OF ENGINEERING. Lectures and recitations on the properties and requirements for materials used in engineering construction, including wood, iron, steel and concrete. Methods of manufacture as affecting quality of material, standard tests employed to secure the proper grade of material, and standard specifications. Prerequisites: Mathematics 106, M. D. 133. Juniors in Civil Engineering. First semester, 3 credits.

Professor Keller.

M. E. 282. STEAM MACHINERY. The fundamental laws governing the transformation of heat into work, embracing the properties of gases, laws of expansion, heat measurement, the mechanical equivalent of heat, properties of steam, construction and study of steam tables, and heat analysis as applied to steam and internal combustion engines. The solution of a large number of problems of a practical nature is required. Lectures and recitations. Prerequisites: Mathematics 106, M. D. 133. Senior Civil Engineers and Juniors in Sugar Technology, Sugar-house Engineering division. First semester, 3 credits.

Professor Young.

M. E. 283. CONTRACTS AND SPECIFICATIONS. Lectures on contracts, touching upon points likely to be of value to engineers, together with such principles of law as should be understood by the engineer who is entrusted with the drawing of contracts, followed by a detailed study of typical contracts and specifications for engineering work of various kinds. Text: Allen "Business Law for Engineers." Prerequisite: M. E. 282, or C. E. 229. Seniors in Civil Engineering. Second semester, 2 credits.

Professor Keller.

M. E. 284. ENGINEERING OF SUGAR PLANTS. Lectures and drafting-room exercises involving the application of the fundamental principles of engineering practice to modern sugar works, including grinding and evaporating machinery, boiler and engine plant, conveying machinery, industrial railways, arrangement of buildings, layout of plant, and other general and special engineering considerations affecting the making and refining of sugar. Prerequisite: M. E. 282. Seniors in Sugar Technology, Sugar-house Engineering division. First semester, 4 credits.

Mr. G. H. W. Barnhart.

ENGINEERING LABORATORY (X.E.)

X. E. 253. MATERIALS LABORATORY. Laboratory practice in testing the materials of construction, involving complete tests of
specimens of wood, iron, steel, and concrete in their various forms. Special attention is given to the preparation and testing of specimens of concrete, both plain and reinforced, in the form of cubes, columns, beams, and girders. The facilities available for such work are ample and the instruction given covers a large number of practical tests, thus affording the student valuable means of familiarizing himself with the behavior of such materials under stress. Prerequisite: C. E. 252. Juniors in Civil Engineering and Sugar Technology, Sugar-house Engineering division. Fee $5.00. Second semester, 3 credits for students in Civil Engineering and 2 credits for students in Sugar-house Engineering division of Sugar Technology. Professor Keller.

ENGLISH

100. COMPOSITION. The principles of exposition, description, and narration; analysis of illustrative specimens; frequent written exercises, and personal conferences with instructor; occasional exercises in oral composition; collateral reading. Designed to lead not only to correctness of expression, but also to a knowledge of constructive principles. Required of all Freshmen. Prerequisite: the successful completion of at least three years of high school English or the equivalent. First and second semesters, 3 credits each.

Asst. Professors Neil and Schwarts, Miss Kleinke and Mr. Tower.

120. TECHNICAL AND BUSINESS ENGLISH. The preparation of scientific and technical data for presentation in written form. May be taken in place of English 130 by Sophomores in the College of Applied Science. First and second semesters, 2 credits each.

Mr. Tower.

130. ENGLISH LITERATURE. A survey of the development of English literature, from Beowulf to Stevenson. Texts: Neilson and Thorndike's "History of English Literature," the "Century Readings in English Literature," Marvin's "History of European Philosophy," and selected novels and plays. Required of all Sophomores in the College of Arts and Sciences, and may be elected by all other Sophomores in place of English 120. First and second semesters, 3 credits each.

Professor A. L. Andrews.

140. JOURNALISM. A study of the development of the modern newspaper; psychology of news interest; the structure of the News Story; methods of getting and writing the different types of News Stories; the Interview, the Editorial, Special Feature Articles. First and second semesters, 2 credits each.

Assistant Professor Baker.
205. **Public Speaking.** A study of the principles underlying oral expression, and frequent practice in extemporaneous speaking. Open to all Juniors and Seniors. First and second semesters, 3 credits each. *Assistant Professor Baker.*

206. **Argumentation.** The theory of argumentation; the analysis of representative arguments; practice in the writing of briefs and forensics. Open to all Juniors and Seniors. First and second semesters, 2 credits each. *Assistant Professor Baker.*

207. **The Novel.** The history of the novel in England. Particular attention will be given to social and literary tendencies as reflected in representative novels from De Foe to Meredith. Prerequisite English 130. First and second semesters, 3 credits each. *Assistant Professor Neil.*

208. **Victorian Prose and Poetry.** The first semester will deal with certain representative prose writers with special emphasis upon Carlyle, Arnold, Ruskin, and Newman. During the second semester a study will be made of the more considerable poets of the period with special emphasis upon Tennyson and Browning. Prerequisite: English 130. First and second semesters, 3 credits each. (Not offered in 1926-1927.) *Assistant Professor Neil.*

210. **Directed Reading.** Eight hours of reading weekly with informal class reports and discussions. Designed to lead to an acquaintance with some important books which are not read in connection with other courses. Prerequisites: English 130 and the approval of the Instructor. First and second semesters, 2 credits each. *Assistant Professor Schwartz.*

211. **Readings in the English Novel.** Eight significant novels are read each semester, with written reports, informal discussions, and occasional lectures. Prerequisites: English 130 and the approval of the Instructor. First and second semesters, 2 credits each. *Assistant Professor Neil.*

212. **Classics in Translation.** A study of selected masterpieces of European literature with special emphasis upon the Greek and Latin classics in translation. First and second semesters, 2 credits each. *Assistant Professor Neil.*

213. **The Bible as Literature.** A study of the types of literature represented in the Bible, their development, and their content as influenced by historical and social conditions; together with the development of the Bible in English translations and their influence on English literature. Prerequisite: English 130 or its equivalent. First and second semesters, 3 credits each. (Not offered in 1926-1927.) *Professor A. L. Andrews.*
220. **Advanced Composition.** A course for those who are interested in writing and who would like to experiment and practice in various forms, such as essay, criticism, short story, and verse. Admission only on consent of the instructor. First and second semesters, 2 credits each.

*Assistant Professor Schwartz.*

250. **American Literature Since 1870.** The study of representative poems, essays, and fiction. Prerequisite: English 130. First semester, 3 credits.

*Professor A. L. Andrews.*

251. **The Short Story.** The principles of the short story, analysis of representative stories; collateral reading; practice in short story writing; conferences with instructor. Prerequisites: English 130 and 250. Second semester, 3 credits.

*Professor A. L. Andrews.*

252. **Shakespeare.** An introduction to Shakespeare with rapid reading of a considerable number of the plays in chronological sequence. Prerequisite: English 130 or equivalent. First semester, 3 credits. (Not offered in 1926-1927.)

*Assistant Professor Schwartz.*

253. **Shakespeare.** The continuation of Course 252. Devoted to the more intensive study of a few plays. Prerequisite: English 252. Second semester, 3 credits. (Not offered in 1926-1927.)

*Assistant Professor Schwartz.*

261. **History of the English Language.** Studies in the origin and development of the language with special reference to the problems of modern English grammar and usage. Prerequisite: English 130 or equivalent. Second semester, 3 units.

*Assistant Professor Schwartz.*

279. **Victorian Poetry.** A study of the more considerable poets of the period with special emphasis upon Tennyson and Browning. Prerequisite: English 130 and the consent of the instructor. Second semester, 3 credits.

*Assistant Professor Neil.*

300. **English Seminar.** Designed primarily for graduates, though properly qualified seniors may be admitted. The intensive study of movements, periods or authors, either British or American. Weekly meetings for reports and discussions. First and second semesters, 2 credits each.

*Professor A. L. Andrews.*

**ENTOMOLOGY**

Entomology is considered to be one of the most important branches of science in Hawaii because of the peculiar importance of insect control in the agricultural industries of the islands. Specimens and materials for study of economic entomology are available more or less throughout the year, making entomological
study particularly advantageous. The insect collection is representative not only of the Hawaiian fauna but also contains a good many specimens from North America and the South Pacific region. The laboratories are equipped with compound and binocular microscopes, and other necessary apparatus.

Not only is the equipment of the University at the service of students engaged in research work, but also the entomological collections and libraries of several other research institutions in Honolulu are available for the use of advanced students, and add to the attractions of this location for research in entomology.

250. General Entomology. A study of the structure, habits and classification of insects. One hour class room, two periods laboratory. Fee $1.00. First semester, 3 credits.

Mr. Bryan.

251. Economic Entomology. Deals primarily with insects of economic importance. Lectures on the more important insect pests and methods of controlling them. Laboratory work includes a study of the several stages in the life history of our common insects, and the making of a collection showing these. Prerequisite: Entomology 250. One hour classroom and two periods laboratory. Fee $1.00. Second semester, 3 credits.

Mr. Bryan.

255. Morphology of Insects. A laboratory course in comparative anatomy of insects. Required of all students for advanced work in entomology. Prerequisite: Entomology 250. Two periods laboratory. Fee $1.00. Second semester, 2 credits. (Not given in 1926-1927.)

Professor Crawford.

257. Medical Entomology. Insects affecting man's person, with suggestions for their control. Lectures and assigned readings on disease-transmitting insects. Laboratory work on life-histories of available species. Prerequisite: Entomology 250. Two periods laboratory. Fee $1.00. Second semester, 2 credits.

Professor Crawford.

300. Research in Economic Entomology. Primarily a post-graduate course. Opportunities for research work in this field are especially attractive, since the problem can be developed throughout the year without interruption. Open only to students who have shown marked ability in the study of entomology. Prerequisites: Entomology 250 and 251. Throughout the year, 3 or more credits a semester.

Professor Crawford.

301. Taxonomy of Insects. A laboratory course in the identification of insects, applying the study of wing venation. Special groups may be studied and original work done by the students. Prerequisite: Entomology 250 and 251. Fee $1.00 per semester. First and second semesters, credits and schedule to be arranged.

Professor Crawford.
French

FRENCH

100. ELEMENTARY COURSE. Phonetics, dictation, conversation reading of easy prose and poetry. Texts: Fraser and Squair’s French Grammar; Talbot’s “La France Nouvelle”; selected readings from Merimee, Halevy, Loti, and others; Fournon and Broussard’s “Pour Parler Français.” First and second semesters, 3 credits each.

101. NINETEENTH CENTURY FRENCH NOVEL. Reading of selected masterpieces of Hugo, Daudet, Balzac, Sand and others. Conversation, essays, and lectures. Carnahan’s “Short French Review Grammar.” Prerequisite: One year of French in college or two years in preparatory school. First and second semesters, 3 credits each.

200. CONTEMPORARY FRENCH LITERATURE. (This course and all to follow are conducted entirely in French). Critical study of the most modern movement in French prose, with especial attention to war literature. Texts for use in class are imported directly from Paris. Essays, lectures, and discussion on contemporary topics. Prerequisite: Two years of College French or equivalent. First and second semesters, 3 credits each.


202. ADVANCED CONVERSATION AND COMPOSITION. A practical course in every-day current French. Reading of French newspapers and magazines with discussion of various aspects of contemporary French life. Compositions on assigned topics. Prerequisite: Three years of college French or equivalent. First and second semesters, 2 credits each.

250. CLASSIC DRAMA. Masterpieces of Corneille, Racine and Molière. Lectures in French upon the literary history of the period. Additional outside reading and research will be assigned. Prerequisite: Three years of college French or equivalent. First semester, 2 credits. (Not offered in 1926-1927.)

251. ROMANTIC SCHOOL. Readings from Lamartine, de Musset, Hugo, etc. Lectures in French upon the significance and influence of the Romantic movement. Individual research and
reports on assigned topics. Prerequisite: French 250. Second semester, 2 credits. (Not offered in 1926-1927.)

Professor Pecker.

252. Modern French Drama. This course alternates with French 250. Selected plays of Brieux, Hervieu, Rostand, Maeterlinck, Bernard, Becque, Bernstein, and others. Rapid reading with essays, lectures, and discussions. Individual research and reports. Lectures on the Paris theatrical season of 1925-1926. Prerequisite: Same as for French 250. First semester, 2 credits.

Professor Pecker.

253. Advanced French Seminar. This course alternates with French 251. Continuation of study as outlined for French 252, or similar work on any phase or period of French literature in which students may be interested. Prerequisite: French 252. Second semester, 2 credits.

Professor Pecker.

GEOGRAPHY

*150. Physical Geography. The suitability of the earth as the abode of man, with special reference to his dependence on climate, relief, continental exposure to oceans, and on plant and animal life. First semester, 3 credits.

Professor Palmer.

*151. Economic Geography. A study of the principles governing the production of the chief raw materials and manufactures of the world and of the commerce in these commodities. Prerequisite: Geography 150. Second semester, 3 credits.

Professor Palmer.

300. Geography Seminar. Special work in geography may be arranged for students capable of advanced study. Hours and credits to be arranged.

Professor Palmer.

GEOLOGY

*252. Physical Geology. The work of the atmosphere, streams, ground water, lakes and oceans, snow and ice, earthquakes and volcanoes. The nature of these agents and the results they accomplish. Text is Pirsson and Schuchert's "Introductory Geology." Prerequisite: Either Chemistry 101 or 102, Botany 101, Zoology 150, or Physics 102. Two recitations and one laboratory period a week. Fee $1.00. First semester, 3 credits.

Professor Palmer.

*253. Historical Geology. The history of the earth, of its continents and ocean basins, and of its plant and animal inhabitants. Same text as for Geology 252. Prerequisite: Geology 252 or 256. Two recitations and one laboratory period a week. Fee $1.00. Second semester, 3 credits.

Professor Palmer.
254. **MINERALOGY.** A study of the crystal systems, of the physical, chemical and morphological criterion for the determination of minerals, leading up to the sight identification of the more common rock-forming and economic minerals. Text is Ford’s “Dana’s Manual of Mineralogy.” Prerequisite: Chemistry 101 or 102, and 124. One lecture and two laboratory periods a week. Fee $3.00 First semester, 3 credits.  
*Professor Palmer.*

255. **GEOLOGY OF GROUND WATERS.** The origin, amount, distribution, circulation, recovery and quality of ground water. Special reference is made to Hawaiian ground water. Prerequisite: Geology 252 or 256. Two recitations a week. Fee $1.00. Second semester, 2 credits. (Not offered in 1926-1927.)  
*Professor Palmer.*

*256. GEOLOGY FOR ENGINEERS.** The work of the various geologic agencies, with especial reference to the structures they produce and the significance of these structures to engineers. Ries and Watson’s “Elements of Engineering Geology.” Required of Juniors and Seniors in Civil Engineering. Two recitations and one laboratory period a week. Fee $1.00. First semester, 3 credits. (Alternate years; offered in 1926-1927.)  
*Professor Palmer.*

300. **GEOLOGY SEMINAR.** Special work in geology may be arranged for students capable of more advanced work. Hours and credits to be arranged.  
*Professor Palmer.*

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**HAWAIIAN**

100. **ELEMENTARY COURSE FOR BEGINNERS IN THE HAWAIIAN LANGUAGE.** Pronunciation, vocabulary, dictation, reading of easy prose, elementary grammar and the common present-day Hawaiian phrases. First and second semesters, 3 credits each.  
*Mr. Beckley.*

101. **INTERMEDIATE HAWAIIAN.** Conjugation, translation of short native editorials, Hawaiian proverbs, and native versions of religious history; declamation and composition. Comments on current topics. First and second semesters, 3 credits each.  
*Mr. Beckley.*

200. **ADVANCED HAWAIIAN.** Reading and translating of legends, meles, and old blue laws into English, and local laws on land tenure and selected prose into Hawaiian. Andrews on Syntax; comparison of Hawaiian and European classics; composition, literal and figurative, of Hawaiian songs. First and second semesters, 3 credits each.  
*Mr. Beckley.*
300. HAWAIIAN LITERATURE AND ARTS. Comparison of Hawaiian meles with those of other Polynesian groups; study of ancient traditions, arts and crafts of old Hawaii; composition of meles and songs, both literal and figurative. First and second semesters, 2 credits each. Mr. Beckley.

HISTORY

Note: Dr. Leebrick will be on sabbatical leave for the first semester 1926-1927; his courses will be given by an instructor not selected at the time this catalogue goes to press.

*100. GENERAL EUROPEAN HISTORY. A general history of European civilization. A study of the development and expansion of European civilization from the earliest times to the beginning of the World War. First and second semesters, 3 credits each. Professor Leebrick and Dr. Hanke.

104. ANCIENT HISTORY. A survey of the growth of civilization in the Mediterranean region with emphasis on Greek and Roman civilizations to the sixth century A.D. No prerequisites. First and second semesters, 3 credits each. (Not offered in 1926-1927.)

107. MEDIEVAL HISTORY. The problems of the Middle Ages, between the years 378-1250. Texts: Emerton's "Introduction to the Middle Ages," and Emerton's "Medieval Europe." Prerequisite: History 100. First and second semesters, 3 credits each. (Not offered in 1926-1927.) Mr. Hooley.

120. HISTORY OF THE BRITISH CONSTITUTION. A study of the development of the English government and the English judicial system from the period of the Anglo-Saxons to 1927. Class discussions and special reports. Intended for pre-legal students. Prerequisite: Political Science 100. Text: Taswell-Langmead, "English Constitutional History." First and second semesters, 3 credits each.

Dr. Lum.

123. ECONOMIC HISTORY. The history of medieval guilds and industrial problems through the establishment of the factory system will be treated in the first semester. The history of invention, of socialism, of labor unions, of capital and of the question of state control with especial emphasis on these events in the United States, in the second semester. Prerequisite: History 100 or 140. First and second semesters, 3 credits each. (Not offered in 1926-1927.)

*124. HISTORY OF JAPAN. Reading of standard works on the history and development of the Japanese people, with supplementary lectures. Special attention is given to the development of feudalism and of modern Japan; the development of political, social, intellectual, and religious movements from the
time of the arrival of Commodore Perry, in 1852, to the present time. First and second semesters, 2 credits each.

Professor Harada.

*125. HISTORY OF CHINA. A general history of Chinese civilization and China's relations with other nations. Assigned readings, reports, and supplementary lectures. First and second semesters, 2 credits each.

Professor Lee.

*140. AMERICAN HISTORY. A general course in American history. The first semester deals with the discovery and settlement of all nations in North America, with the growth of the Colonies and with the achieving of independence. The second semester deals with the development of the United States and its growth since 1790, considerable attention being devoted to the period since the Civil War. First and second semesters, 3 credits each.

Mr. Hooley.

*145. THE HISTORY OF THE WEST. A survey of the expansion into and the development of the West, and of its relations to national and international affairs. The Trans-Mississippi region will be especially emphasized. Prerequisite: Political Science 100 or History 140. First and second semesters, 3 credits each.

Mr. Hooley.

*162. THE WORLD WAR. A brief study of the more important campaigns and a detailed study of engagements in which the United States took part. Open to all students of the University. Given especially for students intending to take the Advanced Course R. O. T. C. First semester, 1 credit.

Professor Clarke.

*177. HISTORY OF THE HAWAIIAN ISLANDS. A general course, covering the entire history of the group from the earliest times to the present day. Lectures, assigned readings, and quizzes, both oral and written. Second semester, 3 credits.

Professor Leebrik, Mr. Kuykendall and Mr. Hooley, assisted by special lecturers from among local authorities on various phases of Hawaiian history.


Professor Clarke.

*215. HISTORY OF EUROPE SINCE 1800. The history of diplomacy and international developments in Europe in the Nineteenth and Twentieth Centuries. Attention is called to the in-
fluence of international movements in their world aspects. No one text is used, but the student is advised to buy one of several recommended texts. Prerequisite: History 100. First and second semesters, 2 credits each. (Not offered in 1926-1927.)

Professor Leebrick.

227-327. Hawaiian History. A seminar course, open only to Seniors, graduate students, and special students by permission of the instructor. Each member of the class will be assigned a subject for investigation throughout the year, and will be required to present a paper embodying the results of the investigation. No credit will be given for the first semester's work unless the course is also taken during the second semester. First and second semesters, 2 credits each. Mr. Kuykendall.

230-330. European Expansion in the Pacific Area. The precise subject to be studied each year will be decided upon by the class and the instructor. A course for advanced students conducted as a reading seminar course. Admission only by the consent of the instructor. First and second semesters, 2 credits each. Hours arranged with instructor. Professor Leebrick.

231. History of the Pacific Ocean Area. A general course outlining the history of the peoples living on the land groups within the Pacific Ocean in modern times. The entire area will be considered, but the emphasis will be on Polynesia and Australasia. Lectures, assigned readings, reports, and discussions. First and second semesters, 2 credits each. Mr. Kuykendall.

233. History of the Pacific Coast of North America. Spanish exploration and colonization by sea and land; approaches of the French, English, Russians, and Americans; official and trading expeditions; the contest for control of the Northwest Coast. A reading and discussion course designed to develop points of contact with the Hawaiian Islands. Admission only by consent of the instructor. Not open to Freshmen and Sophomores. First and second semesters, 2 credits each. (Not offered in 1926-1927.) Mr. Kuykendall.

*241. History of Oriental Religions. Lectures on the religions of India, China and Japan, and the modern religions and ethical movements in those countries. First and second semesters, 1 credit each. (Not offered in 1926-1927.) Professor Harada.

*243. Contemporary United States History (1868-1924). A survey of the political and economic expansion of the United States since the Civil War. The second semester will emphasize the foreign relations of the United States in this period. Prerequisites: American Institutions or History 123 or 140. First and second semesters, 3 credits each. (Not offered in 1926-1927.) Mr. Hooley.
*252. THE FORMATION OF THE AMERICAN CONSTITUTION. A study will be made of the formation of colonial governments, early state constitutions, the establishment of our national Constitution, and subsequent developments to about the year 1800. Text to be selected; assigned reference readings. Prerequisite: American Institutions or History 140. First semester, 3 credits.

Mr. Hooley.

*253. HISTORY OF SPANISH AMERICA. A general survey of the history and institutions of the principal nations of Spanish America. Especial emphasis will be placed upon the discussion of such problems as the Monroe Doctrine, Pan-Americanism, and the relations between the United States and Latin America. Second semester, 3 credits.

Mr. Hooley.

*279. GENERAL ETHNOLOGY. Especial attention will be given to the Polynesian Culture. Second semester, 2 credits.

A member of the Bishop Museum Staff.

*291. CHINESE INSTITUTIONS. A Lecture Course with assigned reference readings. Study of the development of the various Chinese institutions—domestic, social, political, religious, educational, economic, etc. Second semester; 2 credits.

Professor Lee.

HOME ECONOMICS

HOUSEHOLD ART

The Division of Household Art has a well equipped laboratory with cutting and sewing tables, sewing machines, dress forms, lockers, pressing board, electric irons, color charts and illustrative material for textile study.

100. TEXTILES AND GARMENT MAKING. A study of fabrics, processes of manufacture, and economic value and uses; the use of commercial patterns, scientific fitting and garment making. Lectures, discussions and laboratory work, required of students in Home Economics. Open to regular and special students. Students presenting entrance credit in sewing will be excused from the laboratory work of the first semester. Fee $3.50 per semester. First and second semesters, 3 credits each.

Assistant Professor Dahl.

101. DRESSMAKING AND DESIGNING. This course gives practical training in the application of line, dark and light, color harmony, and texture to costumes for different individuals and purposes. Drafting of patterns is taught. All designing is done by modeling on dress forms. Original work is required. Lectures, discussions and laboratory work. Prerequisites: Art 100, and
H. A. 100; prerequisite or parallel: Art 110. Fee $3.50 per semester. First and second semesters, 3 credits each.

Assistant Professor Dahl.

*150. Costume Appreciation. Discussion and demonstration to develop appreciation of costume as a means of art expression. Costume is considered from the standpoint of abstract design, becomingness, suitability and expressiveness. Open to all students. First semester, 1 credit. Assistant Professor Dahl.

153. Costume Decoration. This course emphasizes the principles of design in relation to dress decoration. Various media will be used in planning and developing all types of decoration for dresses, hats, etc. Emphasis is placed on seasonal trimming. Prerequisite or parallel: H. A. 101. Fee $3.50. Second semester, 3 credits.

Assistant Professor Dahl.

200. Millinery. The construction and trimming of hats, beginning with the use of foundation materials; making of wire and willow frames; copying from models and pictures; original designs. Prerequisites: H. A. 100 and 101. Fee $3.50. First and second semesters, 3 credits each.

Assistant Professor Dahl.

250. Advanced Dressmaking. Special application of the principles of design and construction to suits, coats and capes. Prerequisites: H. A. 100 and 101. Fee $3.50. First semester 3 credits.

Assistant Professor Dahl.

HOUSEHOLD SCIENCE

The Division of Household Science has a well equipped cookery laboratory with desks and utensils for individual work for sixteen students. Equipment for meal service and for nutrition courses is also available. There is an animal laboratory for experimental feeding and research.

102. Food Economics. Selection, preparation and serving of food with regard to composition, cost, season, and occasion. The effects of economic conditions and production, transportation, and marketing upon the cost and availability of foods will be considered. Prerequisite: Chemistry 101 or 102. Fee, $5.00 per semester. First and second semesters, 3 credits each.

Assistant Professor Miller.

150. Elementary Food Preparation. A study of the fundamental cookery processes applied to the important classes of food stuffs. The production, manufacture and composition of common foods are considered in lecture. Lecture and laboratory. Required of all students majoring in the Home Economics course
who have not had high school cooking approved by the Household Science Department. Fee $5.00. First semester, 3 credits. 

Assistant Professor Miller.

*151. ELEMENTARY NUTRITION. A study of the principles of diet in relation to health and their application in the planning and preparation of meals for the family. Lecture and laboratory. Prerequisite: H. S. 150 or a knowledge of cookery processes satisfactory to the instructor. Not open to students majoring in Home Economics. Fee $5.00. Second semester, 3 credits. 

Assistant Professor Miller.

200. NUTRITION. A study of the nutritive requirement of man; the function of food in the body; the nutritive value of foods and their place in the diet. Prerequisite: Chemistry 101 and 105 or 102; and Chemistry 260. Lecture and laboratory. Fee $5.00 per semester. First and second semesters, 3 credits each. (Not given in 1926-1927.) Assistant Professor Miller.

249-349. RESEARCH. Problems according to preparation. Investigation of nutritional problems; animal and human feeding experiments. For seniors and graduates. Hours and credits to be arranged. 

Assistant Professor Miller.

250. HOUSEHOLD MANAGEMENT. Study of the practical arrangement of the floor plans of houses for convenience and economy. Labor saving devices; laundry, kitchen and dining room equipment and arrangements; efficient management of the home, including budgeting of the income, are considered. Lectures, outside readings and reports. Two lectures, one laboratory or visiting period per week. First semester, 3 credits. 

Assistant Professor Miller.

251. FOOD INVESTIGATION. Special problems relating to cost, preparation, and utilization of food. Studies may be of a general nature or with reference to Hawaiian conditions. Laboratory and conferences. Prerequisite: H. S. 102. Fee $5.00. Second semester, 3 credits. (Not given in 1926-1927.) Assistant Professor Miller.

Methods and practice teaching of cookery can be arranged in cooperation with educational courses. Those planning to teach should consult the courses prerequisite for practice teaching in the Education Department.

Arrangements have been made for field practice for senior girls in Household Science desiring such training, as follows:

1. The Social Service Bureau of Honolulu will give field practice in social nutrition work under the direction of its trained workers for senior girls majoring in Household Science. H. S. 200 must be taken previously or parallel. Sociology satisfactory
to the Social Service Bureau will also be required. The number of hours and credit to be arranged for each student.

2. The Queen’s Hospital of Honolulu will also cooperate with the Household Science Department of the University so that senior girls may obtain field practice as dietitians in the hospital. Hours and credit to be arranged for each individual student.

JAPANESE

100. BEGINNER’S COURSE. Colloquial Japanese; pronunciation, conversation and grammar using romanized spelling (First Semester). Reading, translating and writing in Katakana and Hiragana, using Japanese readers (Second Semester). First and second semesters, 3 credits each. 

Professor Harada.

101. INTERMEDIATE COURSE. Reading and translation of Japanese readers. Simple Chinese characters, dictation, composition and letter-writing. First and second semesters, 3 credits each. 

Professor Harada.

200. ADVANCED COURSE. Reading of advanced readers, modern literature and magazine articles. Exercises on translation and essay writing. First and second semesters, 3 credits each. 

Professor Harada.

201. JAPANESE LITERATURE. Aston’s “History of Japanese Literature” with supplementary lectures on the development of contemporary literature. Japanese-English and English-Japanese translations, with readings of contemporary literature. First and second semesters, 2 credits each. 

Professor Harada.

MATHEMATICS

*104. ENGINEERING MATHEMATICS. (a) Analytic geometry, plane and solid. (b) Spherical trigonometry. (c) A short course in Advanced Algebra, including symmetric functions, partial fractions, irrational functions, simultaneous quadratic equations, binomial theorem, theory of equations, infinite series, logarithms. (d) A short course in differentiation. Required of Freshmen in Engineering. Prerequisites: Elementary Algebra, Plane and Solid Geometry, Plane Trigonometry. First and second semesters, 5 credits each. 

Professors Webster and Donaghho.

*106. CALCULUS. Differential and integral calculus. Required of Sophomores in Engineering. Prerequisite: Course 104. First and second semesters, 3 credits each. 

Professor Donaghho.

*150. PLANE TRIGNOMETRY. Prerequisites: Algebra and Plane Geometry. First semester, 3 credits. 

Miss Yap.

*151. ALGEBRA AND ANALYTIC GEOMETRY. Prerequisite: Same as for Course 150. Second semester, 3 credits. 

Miss Yap.
*152. Analysis. A brief course in analytic geometry, differentiation, integration, and applications, intended to meet the needs of students of natural science. Prerequisites: Algebra, plane geometry, plane trigonometry. First semester, 3 credits.

Professor Donaghho.

*153. Analysis. Continuation of Course 152. Second semester, 3 credits.

Professor Donaghho.

*250. Astronomy. A brief course in practical astronomy, adapted to the needs of engineering students. Required of students in Engineering. Prerequisite: Course 104. First semester, 3 credits. Alternates with M. E. 282. (Not offered in 1926-1927.)

Professor Donaghho.

*252. Calculus. (a) A list of comparatively simple problems giving a rapid review of many applications of the calculus. (b) Differential Equations. Prerequisite: Course 106. First semester, 1 or 2 credits.

Professor Donaghho.

*253. Calculus. Continuation of Course 252. Second semester 1 or 2 credits.

Professor Donaghho.

MECHANICAL DRAWING

(See Engineering)

MECHANICAL ENGINEERING

(See Engineering)

MILITARY SCIENCE AND TACTICS

All male students who are citizens of the United States and physically fit are required to enroll during their first two years in the Reserve Officers' Training Corps, and to devote three periods a week of not less than one hour each to military science and training. Two of the three periods are devoted to drill practice and one period to theoretical training, during the first year basic course; one period is devoted to drill and two periods are devoted to theoretical training during the second year basic course. Students who wish may attend a summer camp.

At the end of the basic course a student who so elects and who is selected by the President of the University and the Professor of Military Science and Tactics, and who signs a form of written agreement prescribed by the Secretary of War, may be enrolled for two more years of service in the Reserve Officers' Training Corps. Such students are required to devote five hours a week to an advanced course in military science and training.
throughout two years and the completion of this work becomes for them a prerequisite for graduation. They are required also to attend one summer camp of six weeks' duration. While enrolled in the Advanced Course, except the time at camp, they receive commutation of rations, at the authorized rate; at camp, the ration itself is furnished and they are paid at the rate of seventy cents per day.

THE COURSE OF INSTRUCTION FOR THE INFANTRY UNIT SENIOR DIVISION, RESERVE OFFICERS' TRAINING CORPS

Basis for calculation of time available for instruction

<table>
<thead>
<tr>
<th>Basis for calculation</th>
<th>Basic Course</th>
<th>Advanced Course</th>
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<tbody>
<tr>
<td>1. Minimum hours of instruction per week required by law</td>
<td>3</td>
<td>5</td>
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<tr>
<td>2. Estimated number of weeks per academic year</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>3. Estimated total available academic hours</td>
<td>108</td>
<td>180</td>
</tr>
<tr>
<td>4. Probable number of classroom periods for recitation on prepared subjects</td>
<td>36</td>
<td>72</td>
</tr>
<tr>
<td>5. Probable number of periods for practical instruction</td>
<td>72</td>
<td>108</td>
</tr>
<tr>
<td>6. Credits for each semester</td>
<td>2</td>
<td>4</td>
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</tbody>
</table>

SUBJECTS AND SCOPE

THE FIRST YEAR BASIC COURSE
(Military Science 100)

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Hours Allotted</th>
<th>Text</th>
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<tbody>
<tr>
<td>Marksmanship</td>
<td>15 hours T.R. 150-5</td>
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<tr>
<td>Military Courtesy</td>
<td>3 hours Lectures and Illustrations</td>
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<tr>
<td>Military Hygiene and First Aid</td>
<td>8 hours T.R. 113-5 and 112-5.</td>
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<tr>
<td>Physical Drill</td>
<td>6 hours Lectures and practical instruction stressing the importance of physical training in the military profession</td>
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Command and Leadership | 64 hours Instruction both theoretical and practical in the following:

Students of the first year Basic Course
will be required to function as privates at military drills and exercises.

Inspections and Ceremonies | 12 hours T.R. 420-20 and 135-5.
### THE SECOND YEAR BASIC COURSE

**Subjects** | **Hours Allotted** | **Text**
--- | --- | ---
Scouting and Patrolling | 12 hours T.R. 200-5 | 
Musketry | 10 hours T.R. 145-5 | 
Interior Guard Duty | 4 hours T.R. 135-15 | 
Automatic Rifle | 12 hours T.R. 150-30 and 320-25 | 
Command and Leadership | 58 hours Theoretical instruction and practical application of the following:
Course will be required to function as squad leaders at military drills and exercises. | 
Inspections and Ceremonies | 12 hours T.R. 420-20 and 135-5 | 

### THE FIRST YEAR ADVANCED COURSE

**Subjects** | **Hours Allotted** | **Text**
--- | --- | ---
 | T.R. 420-115 | T.R. 420-120
 | T.R. 420-125 | T.R. 420-130
 | T.R. 240-10 | T.R. 240-15
 | T.R. 240-30 | 
Military Law | 12 hours Manual of Courts-Martial | 
Rules of Land Warfare | 4 hours Lectures | 
Command and Leadership | 52 hours Theoretical instruction and practical application of the following:
Course will be required to function as section leaders at military drills and exercises. | 
Inspections and Ceremonies | 12 hours T.R. 420-20 | T.R. 475-5
THE SECOND YEAR ADVANCED COURSE

(Military Science 210)

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Hours Allocated</th>
<th>Text</th>
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<tbody>
<tr>
<td>Infantry Weapons:</td>
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<tr>
<td>28 hours T.R. 320-70 T.R. 320-85</td>
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<tr>
<td>Administration</td>
<td>8 hours</td>
<td>Lectures and practical work on</td>
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<tr>
<td></td>
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<td>Morning report</td>
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<td>Duty Roster</td>
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<td>Sick report</td>
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<td>Care of Property</td>
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<td>Discipline</td>
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<td></td>
<td></td>
<td>Messing</td>
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<tr>
<td>Combat Principles</td>
<td>52 hours T.R. 420-100 T.R. 420-105</td>
<td></td>
</tr>
</tbody>
</table>
| Command and Leadership               | 52 hours T.R. 420-120 | Theoretical and practical in-
| Students of the second year Advanced |                 | struction in the following:  |
| Course will be required to function as |                 | T.R. 50-15 T.R. 50-20         |
| platoon leaders at military drills and |                 | T.R. 420-40 T.R. 420-45      |
| Inspections and Ceremonies           | 12 hours T.R. 420-20 T.R. 135-5 |}

MUSIC

Courses in music taken in the Punahou School of Music may be credited towards graduation from the University of Hawaii, provided that the courses taken are of a nature to justify the granting of credits. The courses that may be credited and the number of credits each will carry will be left to the judgment of the University of Hawaii.

Students desiring credit for work done in the Punahou School of Music should register for such work on their University Registration Card, and at the same time make a written request for credit, stating fully the nature of the course and the amount of time the course will demand.
PHILOSOPHY

150. LOGIC, DEDUCTIVE AND INDUCTIVE. Required of all sophomores in the College of Arts and Sciences. First semester, 3 credits. Assistant Professor Baker.

151. LOGIC, DEDUCTIVE AND INDUCTIVE. A repetition of Course 150. Second semester, 3 credits. Assistant Professor Baker.

250. PROBLEMS OF PHILOSOPHY. Text used "Problems of Philosophy" by Dr. John G. Hibben. Titles of chapters: A Plea for Philosophy; the Problems of Philosophy; the Problem of Being (Ontology); the World Problem (Cosmology); the Problem of Mind (Psychology); the Problem of Knowledge (Epistemology); the Problem of Reason (Logic); the Problem of Conscience (Ethics); the Problem of Political Obligation (Political Science); the Problem of the Sense of Beauty (Aesthetics). First semester, 2 credits. Dr. Hood.

251. ETHICS. The study will treat of the science of human duty,—the philosophy of moral ideas, principles, and obligations, historically developed. Text, Myers "History of Ethics." Open to upperclassmen and Graduate students. Second semester, 2 credits. Dr. Hood.

PHYSICAL EDUCATION

All women students under twenty-five years of age and registered as regular students or as special students taking eight or more credit hours a semester are required to take a minimum of one credit hour per week of Physical Education. Exemption from this requirement may be obtained only by permission of the Faculty Committee. All students registered are required to attend classes until exemption has been granted.

First and second year students are required to take two periods per week of supervised exercise; third and fourth year students are required to take one period of supervised exercise.

Following is a plan of the work in Physical Education for the year 1926-1927:

100. REQUIRED OF FRESHMEN AND SOPHOMORES. This course will include games, natural gymnastics, athletics, and individual gymnastics. First and second semesters, 2 hours a week, 1 credit each. Miss Gay.

200. REQUIRED OF JUNIORS AND SENIORS. A great deal of emphasis will be placed on swimming and games, leading to basketball, soccer and baseball. First and second semesters, 1 hour a week, 1 credit. Miss Gay.

250-251. THEORY AND PRACTICE OF PHYSICAL EDUCATION. This course is intended for those students wishing to teach
Physical Education as a minor subject in public schools. First and second semesters, 2 credits each. Miss Gay.

253. **Theory of Physical Education.** This course is intended for teachers who want the theory and coaching of athletics and games. Second semester, 2 credits. Miss Gay.

**Physics**

The quarters of the Department of Physics comprise a well furnished lecture and demonstration hall, two student laboratories, a shop, dark room, seismograph chamber, offices, and suitable accommodations for storage and research.

In addition to standard apparatus for laboratory instruction in general physics the equipment includes several pieces for precision measurements in electricity, X-ray and photographic apparatus, instruments for radio reception, and power-driven shop machinery.

Facilities are adequate for the prosecution of special investigations in several fields and the resources of the department are always at the service of persons qualified to attempt such work.

All undergraduate courses described below are given every year. One or more graduate courses are offered every year, the titles listed below being drawn from graduate courses presented during the past three years.

102. **General Physics.** Mechanics, heat, light, electricity and magnetism, and modern atomic physics. Prerequisite: Mathematics 151. The student's work is about equally divided between laboratory effort and text study. This is the course regularly taken by pre-medical students and other non-engineers. The text book used is "Textbook of Modern Physics," by Weld and Palmer. Fee $2.00 per semester. First and second semesters, 4 credits each. Professor Kirkpatrick and Mr. Magarian.

150. **Mechanics and Properties of Matter.** Parallel course Mathematics 106. Two lecture-recitation periods and one laboratory period weekly. This is a required course for Sophomore students in Engineering. The textbook used is "College Physics," by Duff. Fee $1.00. First semester, 3 credits. Mr. Magarian.

151. **Sound and Heat.** Parallel course Mathematics 106. Two lecture-recitation periods and one laboratory period weekly. This is a required course for Sophomore students in Engineering. The textbook used is "College Physics," by Duff. Fee $1.00. Second semester, 3 credits. Mr. Magarian.

*200. **Advanced Electricity.** Prerequisites: Physics 150 and 250. One lecture period and two laboratory periods during the first semester, and two lecture periods and one laboratory
period during the second semester. This is a required course for senior students in Engineering. The laboratory work comprises measurements of current, voltage, resistance, inductance, capacity, and magnetic properties, and the testing of commercial electrical machinery. Fees $2.00 first semester, $1.00 second semester. First and second semesters, 3 credits each.

Professor Kirkpatrick.

250. Electricity and Magnetism. Prerequisites: Physics 150 and Mathematics 106. One lecture-recitation period and one laboratory period weekly. This is a required course for Junior students in Engineering. The textbook used is “College Physics,” by Duff. Fee $1.00. First semester, 2 credits.

Mr. Magarian.

251. Light. Prerequisites: Physics 150 and Mathematics 106. One lecture-recitation period and one laboratory period weekly. This is a required course for Junior students in Engineering. The textbook used is “A Text-book of Physics”, by Duff. Fee $1.00. Second semester, 2 credits.

Professor Kirkpatrick.

*350. Optics. Prerequisites: A knowledge of general physics and Mathematics 106 or the equivalent. This course is a survey of geometrical optics, physical optics, spectroscopy in all regions, and optical theories both classical and recent. Two lecture-discussion periods weekly, with demonstrations. One semester, 2 credits.

Professor Kirkpatrick.

*351. Electronic Physics. Prerequisites: A knowledge of the content and methods of general physics and a working knowledge of the calculus. Two discussion periods weekly. This course is an introduction to modern sub-atomic physics. Crowther’s “Ions, Electrons, and Ionizing Radiations” is used as a text, with supplementary readings in other books and journals. One semester, 2 credits.

Professor Kirkpatrick.

*353. Atomic and Molecular Structure. A seminar course for students possessing a knowledge of the fundamentals of theoretical physics and chemistry. Molecular and atomic constitution is considered in the light of current physical and chemical views. In particular the models proposed by Bohr and by Lewis and Langmuir are considered in detail. Second semester only. Two credits. Professor Kirkpatrick and ____________________________

361. Physical Research. Students possessing requisite qualifications will be permitted to pursue original investigations, under the supervision of the department. Hours and credits by arrangement.

Professor Kirkpatrick.
PHYSIOLOGY

251. PHYSIOLOGY. A course in physiology for the general student as well as those preparing for medicine. The functions characteristic of the various systems of organs of the human body are considered in detail. Not open to freshmen or sophomores. Three lectures a week. Second semester, 3 credits. Professor Edmondson.

POLITICAL SCIENCE

*100. AMERICAN INSTITUTIONS. The aim is to teach citizenship by familiarizing students with the various institutions of American government and to gain a clear insight with new working principles. Training is given in reading newspapers, magazines and books; discussions of current events, local, national and international, are frequent. The discussion-recitation method is followed. Text: Munro’s “The Government of the United States.” The library has several copies of supplementary texts. First and second semesters, 3 credits each. 

Professor Leebick and Dr. Hanke.

*105. A course in history or political science for teachers and others. Course to be arranged with those interested at first session of class. An afternoon time will be arranged. First and second semesters, 2 credits each. (Not offered in 1926-1927.)

Professor Leebick.

*110. POLITICAL SCIENCE. Introduction to Political Science, Political Theory. Texts: R. G. Gettell’s “Introduction to Political Science” and “Readings,” and other assigned texts. First and second semesters, 3 credits each.

Professor Leebick and Dr. Hanke.

*120. COMPARATIVE GOVERNMENT. A comparison of the government of the United States with other governments, especially those of Great Britain, France, Switzerland, and Germany. Attention will be given to the principles of Political Science, and the end of the second semester will be devoted to a brief examination of current political ideas. Text: Bryce, “Modern Democracies.” First and second semesters, 3 credits each. (Not offered in 1926-1927.)

Professor Leebick.

230-330. SEMINAR IN HAWAIIAN POLITICS. Intended for advanced students interested in special problems in Hawaiian politics. No regular class meetings, but frequent conferences with the instructor. Only those specially qualified will be admitted. Credits according to amount of work done. Dr. Lum.

*250. INTERNATIONAL ORGANIZATION. A study of the development of the modern state system, diplomacy, arbitration, international administration, conferences and congresses to 1919.
Text: Potter "Introduction to the Study of International Organization." First semester, 3 credits.  

*251. LEAGUE OF NATIONS. An advanced, reading course in the League of Nations, its relation to other forms of international organization, and current world problems. The work consists of special reports and class discussions. Prerequisite: Political Science 250. No text. Second semester, 3 credits.  

*252. ELECTIONS. This course includes consideration of electoral methods and history of the important countries of the world. Special attention to problems in Hawaii. Will study such problems as: corrupt practices, non-voting, primary elections, etc. Prerequisite: Political Science 110 or 120. Text: Seymour and Frary, "How the World Votes." First semester, 3 credits.  

*253. AMERICAN POLITICAL PARTIES. A course in the historical development of the party system in the United States and a study of its present organization and methods. Deals especially with campaign methods, the boss, and the function of the party in elections and administration. Prerequisite: History 140. Texts Robinson "The Evolution of American Political Parties" and Merriam "The American Party System." Second semester, 3 credits.

PSYCHOLOGY

*150. GENERAL PSYCHOLOGY. An introductory course in psychology offering a survey of the various aspects of mental life. (Although it is not a prerequisite, beginning students in psychology will find Zoology 150 of great benefit.) Not open to first year students. Required of Sophomores in the College of Arts and Sciences. First semester, 3 credits.  

*151. GENERAL PSYCHOLOGY. A repetition of Course 150. Second semester, 3 credits.  

200. DIRECTED READING IN PSYCHOLOGY. Open only to those qualified to do independent work and show results. Either semester, credit to be arranged. Roughly one point of credit is the equivalent of 54 hours of satisfactory work.  

250. EDUCATIONAL PSYCHOLOGY. This course deals with psychological principles underlying the educative processes, and includes such topics as native endowment, transfer of training, individual differences, sex differences, habit formation, the role of instincts in education, etc. Prerequisites: Psychology 151 or its equivalent. First semester, 3 credits.
251. **Psychology of the Secondary School Subjects.** A consideration of psychological principles and experimental data bearing upon the learning and teaching of high school subjects such as History, Science, Mathematics, English, etc. Required of all who are registered for Education 253. Prerequisite: Psychology 250 or its equivalent. Second semester, 2 credits.

Professor Porteous.

*252. Racial Psychology.* This course will deal primarily with comparisons of the educational, social, mental, and industrial status of the various racial groups in Hawaii. The subject matter of these lectures will be taken from investigations already completed or in progress which relate to the reality and nature of racial differences as influenced by heredity and environment.

Note: As the material will change from year to year students may, with the approval of the instructor, re-enroll in this course for credit. First semester, 2 credits. **Professor Porteous.**

*253. Mental Measurements.** A course of lectures with demonstrations of psychological tests, educational measurements and rating scales, with particular reference to those applicable to racial groups in Hawaii. The value and limitations of such tests both for clinical diagnosis and research purposes will be discussed. Second semester, 2 credits.

Professor Porteous and Miss Babcock.

*257. Mental Measurements Applied to Racial Differences.* The subject matter will include the following general topics:

1. A survey of the results of studies of racial capacities.
2. Demonstration of tests applicable to the measurement of racial differences.
3. Review of the relation of education to the racial problem in Hawaii.

A point of special interest to the primary teachers is that the new Porteus educational tests for kindergarten and entering first-grade children will be fully dealt with and demonstrated so that the teachers themselves can give these tests. Second semester, 2 credits. (Given in 1925-1926.) **Professor Porteous.**

300. **Research in Psychology.** An opportunity is offered for graduate students, and others properly qualified, to carry on special investigations. A thesis is required. Either semester, credit to be arranged. Roughly one point of credit is the equivalent of 54 hours of satisfactory work.

Professors Porteus and Livesay.
A Psychological Clinic is now established in connection with the University. Its activities may be comprised under three heads—mental examinations, research, and training in certain fields of applied psychology.

Mental examinations will be conducted of cases referred to the Clinic by juvenile courts, industrial schools and other social welfare agencies. If requested mental surveys of schools and institutions will also be carried out.

Research activities will be concerned mainly with the development and adaptation of mental tests for use in the Territory. Data on various problems in racial psychology will at the same time be gathered and analyzed.

The Psychological Clinic will also provide facilities for properly qualified students to obtain practical training in methods of mental testing and psychological research. This training will be particularly applicable to students wishing to qualify themselves for work in the fields of psychology, sociology and special education. Ordinarily credit will be given for this work under Psychology 300.

**SOCIOMETRY**

*-250. INTRODUCTION TO SOCIOLOGY. Prerequisite: Two years of college work. First semester, 3 credits. Professor Smith.

*-251. SOCIAL PROBLEMS. Problems of today viewed in relation to each other and to recent progress. Prerequisite: Sociology 250. Second semester, 3 credits. Professor Adams.

252-253. A reading course in the literature of some field of social service to accompany Sociology 254-255. Consultations and reports monthly. Semester papers based on reading and practical work. Open only to students believed to be able to do successful work with but little direction. Credit not to exceed 3 units for each semester, to be given according to work accomplished. Professor Adams.

254-255. A practical course in social service is offered by the University in co-operation with certain social service agencies in Honolulu. Work has been given in co-operation with the Social Service Bureau and the International Institute and plans have been made for co-operation with the Department of Social Service in the Queen’s Hospital. This Course is open only to such regular full time students as shall make appropriate arrangements for unpaid service. The student will devote such time as may be determined upon to actual work under the direction of the head worker of the selected social agency, and shall be
responsible to such head worker. Credit will be based on success in the work and the number of units shall be according to the amount of work done, but in no case shall it exceed five for any semester.

Professor Adams.

256. THE FAMILY. First semester, 3 credits.

Professor Smith.

*257. POPULATION. (1) A study of the facts of population density and their relation to standard of living and to general social welfare and progress. (2) A study of the qualitative problem from the standpoint of biological inheritance and selective agencies under recent conditions. (3) Racial contacts through migration and commerce. (This course is not given at the same time with Sociology 251 but a choice between the two courses is announced each year). Second semester, 3 credits.

Professor Adams.

260. PRINCIPLES OF SOCIOLOGY. A study of the nature of man as conditioned by social contacts. First semester, 3 credits. (Not given in 1926-1927.)

Professor Adams.

263. COMPARATIVE CULTURE. A seminar course. A study of Oriental and of Occidental culture. Ethical maxims and codes, religion, family customs and standards, ideas about and attitudes toward government. Similarities as well as differences will be noted. The general point of view is that all lasting culture elements are valuable under the conditions of their origin and development. An effort will be made to determine what features of Occidental culture would be valuable to the peoples of the Orient and what features of Oriental culture would be useful to Occidental peoples. Tuesday evenings, 7:30-9:30. Second semester, 2 credits.

Professors Adams, Dean, Handy, Harada, Lee, and Leebick.

SPANISH

100. ELEMENTARY COURSE. Conversation and dictation. Both Castilian and Latin-American pronunciation taught. Texts: Coester's Spanish Grammar; Padre Isla's "Gil Blas de Santillana"; Dorado's "España Pintoresca"; Alarcón's "El Capitán Veneno"; Gutiérrez' "El Trovador"; Crawford's Spanish Composition. First and second semesters, 3 credits each.

Miss Waite.

101. CONTEMPORARY SPANISH LITERATURE. Works of Galdós, Valera, Pereda, Ibáñez, and others. Conversation and composition based on Waxman's "A Trip to South America." Commercial correspondence. First and second semesters, 3 credits each.

Professor Pecker.
250. **Spanish Classics.** Works of Cervantes, Lope de Vega, Tirso de Molina, Calderón de la Barca, and others. The picar­esque novel, "Lazarillo de Tormes." Lectures upon the history of Spanish literature. Composition, conversation, and review of grammar. Prerequisite: two years of college Spanish. First semester, 2 credits. (Not offered in 1926-1927.)

*Professor Pecker.*

251. **Advanced Spanish Seminar.** Rapid reading of modern Spanish novels, plays, and current periodicals. Lectures and discussions. Individual research and reports on assigned topics. Seneca’s "Spanish Conversation and Composition." Prerequisite: Spanish 250. Second semester, 2 credits. (Not offered in 1926-1927.)

*Professor Pecker.*

252. **Modern Spanish Novel.** Rapid reading course with advanced work in composition and conversation. Review of grammar. This course alternates with Spanish 250. Prerequisite: Two years of college Spanish. First semester, 2 credits.

*Professor Pecker.*

253. **Modern Spanish Drama.** Rapid reading of modern Spanish plays, with continued work in composition, diction and conversation. Cool’s "Spanish Composition." This course alternates with Spanish 251. Prerequisite: Spanish 252. Second semester, 2 credits.

*Professor Pecker.*

**SUGAR TECHNOLOGY**

The sugar laboratory contains a recent model Schmidt and Haensch saccharimeter, a Bausch and Lomb saccharimeter, a Landolt–Lippich polariscope, for monochromatic light, a Stammer colorimeter, an Abbe–Zeiss and an immersion refractometer, a small hand mill, and practically all the miscellaneous apparatus needed in a sugar factory laboratory. A number of old model polariscopes of different types have been donated by plantations, and are of value in demonstrating the theory and construction of the modern instrument.

201. **Sugar Analysis.** Laboratory and lecture course intended to fit the student for the position of chemist in a sugar­house laboratory, or to give him a good working knowledge of chemistry as applied to the manufacture of raw and refined sugar. Among the topics taken up are the theory and construction of the polariscope and the refractometer, the calibration and testing of these and other laboratory apparatus, general laboratory routine, and the fitting out of a sugar laboratory, the methods of sampling and of analysis of the various products met with in a cane sugar factory.
In order to take this course the student must have a working knowledge of general chemistry and laboratory manipulations. Prerequisites or parallel, Chemistry 101 or 102 or 124. Required of Juniors in Sugar Technology. One lecture and two laboratory periods a week. $5.00 per semester; breakage deposit, $3.00 per semester. First and second semesters, 3 credits each.

Professor Dillingham.

250. SUGAR-HOUSE CALCULATIONS. A lecture and recitation period in which instruction is given in sugar-house calculations, in working out problems involving the yield and losses ordinarily encountered in actual factory work, and in making out typical laboratory reports such as are required by plantations in the Hawaiian Islands. Prerequisite: S. T. 201 and 253. Seniors in Sugar Technology. First semester, 1 credit.

Professor Dillingham.

252. SUGAR MANUFACTURE. A series of lectures and recitations on the manufacture of sugar, taking up in detail a discussion of the various types of machinery and apparatus employed in the best modern factories and the principles involved in their use, embodying such topics as multiple milling, the effect of various types of roller grooving, pressure and maceration on extraction, clarification of juices, multiple effect evaporation, the economical use of steam, sugar boiling, crystallization in motion, and the curing, drying, and preparation of sugars for the market. Though this is primarily a course for cane sugar men, a brief description of the methods employed in beet sugar manufacture and refinery practice is also given, together with a discussion of the various processes for making white sugar direct from the cane. Required of Seniors in Sugar Technology. Prerequisite: S. T. 201 and 253. Three hours a week class room. First semester, 3 credits.

Mr. McAllep.

253. SUMMER PRACTICE. During the summer vacation between the Junior and Senior years, students in Sugar Technology will be required to spend at least 8 weeks in practical field or mill work. Those taking field work become Student Assistants in the Experiment Station of the Hawaiian Sugar Planters' Association. Those taking factory work enter one of the mills, where they are under the direction of the manager and work at various stations under regular factory conditions. Academic credit for this will be granted on the presentation of a satisfactory report in duplicate. Prerequisite: S. T. 201. 6 credits.

Professor Dillingham.

255. FIELD PRACTICE. During the second semester of the Senior year in the Agricultural Division the student does his work in the capacity of a Student Assistant in the Experiment
Zoology

Station of the Hawaiian Sugar Planters’ Association. He may serve a part or all of the time at the Waipio Substation, or he may be sent out as an assistant to the field men in charge of experimental work on the various plantations. A written report in duplicate must be submitted at the end of the semester. 16 credits. In order to be admitted to this course previous enrolment for at least one semester in the University of Hawaii is necessary.

Professor Dillingham.

257. FACTORY PRACTICE. Seniors in the Sugar-house Engineering division spend the second semester of Senior year as apprentices in the factory of one of the plantations. They are under the regular discipline of the factory and are given different stations in the mill, boiling-house and laboratory so that they may become familiar with the various pieces of equipment and their operation. A written report in duplicate covering the layout of the mill and its operation must be submitted at the close of the work. 16 credits.

Professor Dillingham.

N. B. Seniors in the chemistry division of Sugar Technology may elect either Sugar Technology 255 or Sugar Technology 257, after consultation with their adviser.

ZOOLEGY

The courses in zoology are intended to meet the demands both of elementary and advanced students, and are arranged to take advantage of the wealth of illustrative and research material available in the Island fauna throughout the year.

The establishment of a biological laboratory for research at Waikiki, adjacent to the aquarium, offers an excellent opportunity for the investigation of marine biological problems. An extensive tropical fauna in the waters about the Hawaiian Islands makes possible an unlimited field for research in zoology. Coral reefs are easily accessible, provision will be made for plankton work, and dredging may be done in moderate depths outside the reefs.

In addition to the general laboratory the building provides private research rooms, aquaria tables with running salt and fresh water, gas, electricity, a photographic room, and other conveniences. Advanced students and special investigators will be given every possible accommodation for the pursuance of research.

100. MARINE PROBLEMS. A course in ecological studies of marine organisms. Observations of animals in their natural surroundings will be made in so far as possible. Collections on shore and reef and laboratory studies of our common marine animals are included in the course. Each student will follow an independent line of investigation under the direction of
the instructor. Prerequisites: Zoology 150 and 151. Two labor­atory periods a week. Fee $2.00 per semester. First and second semesters, 2 credits each. **Professor Edmondson.**

102. **MAMMALIAN ANATOMY.** A laboratory course primarily for pre-medical students involving the careful dissection of a typical mammal. Prerequisites: Zoology 150 and 151. Two laboratory periods a week. Fee $1.00 per semester. First and second semesters, 2 credits each. **Professor Edmondson.**

150. **GENERAL ZOOLOGY.** An introductory course covering in a general way the field of animal life. Biological principles are presented and a study of the structure, development, relationship, distribution, and economic importance of animals is made. Text: Galloway's "Text Book of Zoology." Required of pre-medical students and Sophomores in Agriculture. Two lectures and one laboratory period a week. Fee $1.00. First semester, 3 credits. **Professor Edmondson.**

151. **COMPARATIVE ANATOMY OF VERTEBRATES.** A continuation of Course 150, including a comparative study of the systems of organs of typical vertebrates. Structural relationships of the various groups are emphasized and the progressive development from the lower to higher forms pointed out. Text: Kingsley's "Comparative Anatomy of Vertebrates," and other reference works. Prerequisite: Zoology 150. Required of pre-medical students. Two lectures and one laboratory period a week. Fee $2.00. Second semester, 3 credits. **Professor Edmondson.**

152. **HISTOLOGICAL TECHNIQUE.** A laboratory course involving methods of fixing, staining and mounting animal tissues. Studies will be made of the tissues prepared. Prerequisites: Zoology 150 and 151. Two laboratory periods a week. $5.00 deposit. First semester, 2 credits. (Not given in 1926-1927.) **Professor Edmondson.**

300. **RESEARCH.** Students with sufficient preparation are encouraged to undertake the investigation of special zoological problems with reference to land, fresh water, or marine animals. Hours and credits to be arranged. **Professor Edmondson.**
UNIVERSITY EXTENSION SERVICE

"Making the Territory of Hawaii Our Campus."

The University of Hawaii is offering a program of extension service whereby some of its educational facilities may be of larger and wider use throughout the Territory. In equipping for its primary function of educating the youth of Hawaii the University has provided scientific laboratories, an extensive library and a corps of specialists as instructors. So far as it is compatible with its primary function, this equipment is offered for service beyond the University campus.

The Extension Service Department of the University of Hawaii is directing its work along several lines, as follows:

1. Extension Classes, both evening and daytime classes; short courses without academic credit, and semester-long courses with or without credit.
2. Reading Courses.
3. Extension Letter.
5. Lecture Service.

EXTENSION CLASSES

Extension courses open to all interested persons are offered by the University of Hawaii. Some of these are short courses of a few days or a few weeks duration, while others extend throughout a semester and may carry regular university credit for properly qualified persons.

During the year 1925-1926, the following courses were conducted by the Extension Division. Evening courses were given this year for the first time and it is probable that there will be an expansion of this feature next year.

1. ACCOUNTING. Elementary Course in the principles of double-entry bookkeeping and the various kinds of accounts necessary in modern business. Two courses, each of 15 weeks, one evening each week, conducted by Asst. Prof. E. H. Van Winkle.

2. ACCOUNTING. Advanced Course, two courses, each of 15 weeks, one evening each week, conducted by Mr. M. M. Graham.

3. ART. Commercial Art, commercial illustration and lettering. A course of 12 evening lessons, conducted by Mr. John Kelly.

4. ART. Drawing and Design, freehand drawing and portraiture. Two courses, each consisting of 10 evening lessons, conducted by Madge Tennant.
5. **Astronomy.** A popular course of lectures and observations, of 6 evening sessions, conducted by Mr. E. H. Bryan, Jr.

6. **Chinese Language.** A course for beginners, of 30 weeks duration, one evening each week, conducted by Prof. Shao Chang Lee.

7. **Dressmaking.** Costume Appreciation. A course of 10 lectures and demonstrations, one session each week, by Madame Dahl.

8. **Dressmaking.** Principles of Design. A course of 10 evening lessons, one session each week, by Mrs. Lillian Larson.

9. **Hawaiian.** An elementary course in Hawaiian language, 15 weeks, two sessions each week, conducted by Mr. F. W. Beckley.

10. **Millinery.** A practical course in design and construction, 10 evening lessons, one session each week, by Mrs. Lillian Larson.

11. **Nutrition.** A series of 24 lessons and demonstrations of the principles of nutrition, conducted by Asst. Prof. Carey D. Miller.

12. **Portuguese.** A course in reading, vocabulary and grammar, 15 weeks, one evening each week, conducted by Prof. M. B. Jones.

13. **Psychology and Modern Fiction.** A popular course of 12 evening lectures, by Prof. S. D. Porteus. A portion of this course was given also in Lihue, Kauai.

14. **Real Estate Practice.** A practical course in the legal and business aspects of the real estate profession, consisting of eleven lectures by the following business and professional men: J. E. Midkiff, George Mellen, F. E. Steere, Dr. Romanzo Adams, W. G. Matthias, Chas. R. Welsh, R. A. Vitousek, C. C. Crozier, Wm. L. Morgan, Chas. G. Heiser.

15. **Spanish.** A course for beginners, 30 lessons, conducted by Prof. M. B. Jones.

**SPECIAL SHORT COURSES**

Several courses of a short, intensive nature have been conducted by the University Extension Division in 1925-1926:

16. **Poultry Husbandry.** Mr. J. O. Dale has conducted a short course for poultry producers at several points in the Islands—Honolulu, Hilo, Kealakekua and Lihue.

17. **Pineapple Production and Canning.** A short course of the nature of a "convention," conducted each year by the University with the cooperation of the Association of Hawaiian Pineapple Canners.
Reading Courses

The class enrolments (not excluding duplicates) at the courses outlined above, were as follows:

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<thead>
<tr>
<th>Course</th>
<th>Credit Students</th>
<th>Non-credit Students</th>
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<tbody>
<tr>
<td>Accounting, Elementary (two courses)</td>
<td>63</td>
<td></td>
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<tr>
<td>Accounting, Advanced (two courses)</td>
<td>72</td>
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<tr>
<td>Art, Commercial</td>
<td>9</td>
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<tr>
<td>Art, Drawing and Design (two courses)</td>
<td>45</td>
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<tr>
<td>Astronomy</td>
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<td>Chinese Language (two courses)</td>
<td>12</td>
<td>7</td>
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<tr>
<td>Dressmaking (Costume Appreciation)</td>
<td>43</td>
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<td>Dressmaking (Principles of Design)</td>
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<tr>
<td>Hawaiian Language</td>
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<td>Millinery</td>
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<td>Nutrition</td>
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<td>Portuguese</td>
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<tr>
<td>Psychology and Modern Fiction (Honolulu)</td>
<td>13</td>
<td>89</td>
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<tr>
<td>Psychology and Modern Fiction (Lihue)</td>
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<td>Real Estate Practice</td>
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<td>Spanish</td>
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<td>Poultry Husbandry (Hilo)</td>
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<td>Poultry Husbandry (Kealakekua)</td>
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<tr>
<td>Pineapple Production and Canning</td>
<td>210</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31</strong></td>
<td><strong>774</strong></td>
</tr>
</tbody>
</table>

READING COURSES

Several courses for home study in the general field of agriculture in Hawaii are available in mimeographed form. These are intended especially for use by farmers in these Islands, and cover the following subjects:

2. Soil Science.
3. Poultry Culture in Hawaii.
4. Natural History and Science.

Home Reading Courses, prepared by the United States Bureau of Education, are offered by the University Extension Division. These courses, 30 in number, are arranged by experts of national reputation and offer an opportunity for home reading of the world's best literature under the guidance of the University. A certain list of books in each course is required to be read and summarized and examination questions answered, all the paper work being reviewed by a member of the University Faculty. Upon satisfactory completion of this work, a certificate is awarded by the United States Bureau of Education. A list of the subjects covered in these reading courses, together with detailed information, will be furnished on request.
The following persons have completed a Home Reading Course and have been awarded the certificate:

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donaldson, Mrs. Ruth M</td>
<td>Ookala, Hawaii</td>
<td>Thirty Books of Fiction</td>
</tr>
<tr>
<td>Ignacio, Amos J</td>
<td>Hakalau, Hawaii</td>
<td>Teaching</td>
</tr>
</tbody>
</table>

THE STORY OF CANE SUGAR

A textbook for use in the grades and high schools, on the sugar industry of Hawaii, has been published recently by the University of Hawaii Extension Division under the title, “The Story of Cane Sugar.” This is a book of 92 pages, loose-leaf arrangement, to permit the addition of material by pupils who use it.

THE EXTENSION LETTER

The Extension Letter is an agricultural weekly published by the University Extension Division and mailed out to about 700 persons interested in farming. The subscription price is $1.00 per year.

MARKETING SERVICE

By a special provision made by the 1925 session of the Territorial Legislature, a Marketing Agent is employed to assist farmers in the marketing of their produce. Mr. Lawrence Gay, Marketing Agent, devotes his entire time to this project throughout the Territory, gathering all available information about production and market trends for the benefit of the public in Hawaii.

LECTURE SERVICE

A program of informal lectures by faculty members has been given by the University throughout the Islands. Information concerning this service will be mailed upon request.

PUBLIC SERVICE

Under this head are included miscellaneous forms of public service, such as technical laboratory and field investigations, expert consultations, dissemination of information through the press or otherwise, special correspondence, etc.
DEGREES CONFERRED
JUNE, 1925

MASTER OF SCIENCE

Douglas Alexander Cooke, B.S. Yale University, 1924.  
Thesis:—An Analysis of the Problems of the Outdoor Seedling Nursery in Hawaii, and Investigations on the Preservation of Sugar Cane Seed.

MASTER OF ARTS

Marguerite Biery, B.S. Columbia University, 1917.  
Thesis:—Arithmetic Problem Material for Junior High Schools in Hawaii.

Frederick Arthur Clowes, B.S.A. Toronto University, 1908.  
Thesis:—Types of Industrial Relationships in Cane Growing on Hawaii. A Study Relating to Agricultural Opportunities for the Graduates of the Public Schools.

Ruth Lu Tet Yap, B.A. University of Hawaii, 1923.  

BACHELOR OF SCIENCE

In Civil Engineering

Takeshi Mori  
John Masato Tanimura

In General Science

Adna Girard Clarke, Jr.  
Edgar Kalanikoa Cook  
Albert Walter Duvel  
William South Fincke  
Edmund Tai Kam Ing  
Hugo Akeshi Kobatake  
Kwai Chong Lung  
Richard Lyman, Jr.  
Albert Edward Minvielle, Jr.  
Charles Keaweheulu Reeves  
Ernest Masao Tani  
Ruddy Fah Tong  
Keizo Tsuji  
Henry Albion Wicke
Degrees Conferred

In Sugar Technology

Norman Stanford Deverill
Carl Alexander Farden
Dyfrig McHattie Forbes
Koji Iwasaki
John Motojiro Nakano
Paul Fukuo Sakamaki
Theodore Roosevelt Waters

BACHELOR OF ARTS

Dorothy Mary Laughlin Beardmore
Rhoda Henrietta Cameron
Jay Uhn Cho
Soon Hee Priscilla Choy
Clara Wai-Ung Chung
Paul Kimm-Chow Goo
Shizuo Harada
Chisato Hayashi
Juanita Hess
Umeyo Hirano
*Robert Burmeister Hope
Tsuyoshi Iwanaga
**David Ichio Katsuki
Kensuke Kawachi
Ayako Kono
Herbert Seichi Kuribayashi
Benjamin Luka Li
Taichi Matsuno
Clifford Dixon McGrew
Laura Meinzies Pratt
Kawehelani Janet Morrison Ross
**Kazu Saiki
Masayuki Tokioka
Shichiro Yamaguchi
Takeo Yamamoto
Ah Hee Young

* Degree granted October 6, 1925, upon receipt of certificate of satisfactory completion of first year in University of Oregon Medical School.

** Degree granted July 13, 1925, upon receipt of certificate of satisfactory completion of first year in University of North Dakota Medical School.
HOLDERS OF UNIVERSITY SCHOLARSHIPS

University Club Sophomore Scholarship
GEORGE K. CHING

Hilo Chamber of Commerce Scholarship
DAVID MAKAOI

Honolulu Rotary Club Student Loan Fund
LOUIS COLLINS
MURRAY HEMINGER
HENRY WIEBKE

Prince Fushimi Fund Scholarship
KAZUMI MAKINO
YASUO ISHIKAWA
YOSHIE OKUMURA

Daughters of American Revolution Scholarship
DORIS HAIR
NINA BOWMAN

Honolulu Chamber of Commerce Freshman Scholarship
PERCY EDWARD SMITH

Honolulu Chamber of Commerce Agricultural Scholarship
HENRY THOMPSON

Chinese Community Scholarship
HARDY LUM
YUN FAT LEE
REGISTER OF STUDENTS

1925-1926

GRADUATE STUDENTS

Alvord, Genevieve, 2229 Kalia Road.
   B.A., Univ. of Illinois, 1916.
Axtelle, George E., The Davenport, Honolulu.
   B.S., Univ. of Washington, 1923.
Barnhard, Emma C., Punahou Schools.
   B.S., Columbia Univ., 1922.
Benyas, Dorothy, 2506 Upper Manoa Road.
   A.B., Univ. of California, 1920.
Buck, Charles D., Fenwick, North Dakota; Mid-Pacific Institute.
   B.S. in Education, State Teachers' College, Aberdeen, So. Dak., 1924.
Cadwell, Floralyn, Carpinteria, Santa Barbara County, California; The Granville, 1054 King St.
   B.L., Univ. of California, 1912.
Childs, Clinton S., Wailuku, Maui.
   A.B., Cornell Univ., 1907.
Chong, Beatrice Y. S., 1313 McCully St.
   B.A., Univ. of Hawaii, 1923.
Clune, Eva Marguerite, 2256 Liliha St.
   B.A., Univ. of Hawaii, 1923.
Darrow, Esther S., 234 Lewers Road.
   B.A., Univ. of Minnesota, 1918.
Davis, Evelene M., 2216-A Kalia Road.
   B.A., College of the Pacific, 1922.
Faulkner, Robert Mardis, Punahou Farm School.
   B.A., Univ. of Hawaii, 1924.
Hauck, Arthur A., Punahou Schools.
   B.A., Reed College, 1915.
Kleinke, Viola L., Cheyenne, Wyo., 2726 Hillside Ave.
   A.B., Univ. of Nebraska, 1919.
Lawson, Edna B., Hilo, Hawaii.
   A.B., Univ. of California, 1924.
Leaf, Curtis Tate, Moweaqua, Illinois; Kamehameha Schools.
Livingston, Penn P., Elk Mound, Wis.; 25 Capitol Building, Honolulu.
   B.S., Univ. of Wisconsin, 1922.
Lum, Richard, Box 101, Wahiawa, Oahu.
   B.S. in Agriculture, Univ. of Hawaii, 1924.
Maconel, Robert L., 2165 Atherton Road.
   A.B., Stanford, 1923.
Register of Students

Martin, Joseph P., Nevada City, Cal.; H. S. P. A. Experiment Station, Honolulu.
B.S., Univ. of California, 1921.
Poole, Charles F., Makaweli, Kauai.
Pope, Willis T., U. S. Experiment Station, Honolulu.
B.S., Kansas Agric. College, 1898; M.S., Univ. of California, 1916.
Putnam, J. Leslie, Merrill, Wisconsin; Central Y. M. C. A.
Ph.B., Denison Univ., 1919.
Shaw, Ruth C., 2121 McKinley St.
B.S., Teachers College, Columbia Univ., 1909.
Smith, Alice W., Lunaiilo Home, Honolulu
B.S., Teachers College, Columbia Univ., 1916.
Starratt, Harold Earl, Olaa, Hawaii.
B.S. in Agriculture, College of Hawaii, 1916.
Thomson, Helen G., Punahou Farm School.
B.S., Occidental College, 1920.
Warren, Lawrence F., Kamehameha Schools.
B.A., College of Idaho, 1924.

COLLEGE OF APPLIED SCIENCE

SENIOR CLASS

First figure indicates grade points earned, second figure semester hours earned at the University of Hawaii. Figures in parentheses indicate advanced standing credits from another institution.

†Chan, Ruth M. L., 276, 105 (General Science, Pre-Medical), 178 So. School St. Honolulu; Waite House, 212 Twelfth St., Ann Arbor, Michigan.
Goddard, Marion P. 48, 18 (96) (Home Economics), Raleigh, No. Carolina; Halekulani Hotel.
Hair, Edward B., 154, 124 (General Science), Hamakuapoko, Maui; Men's Dormitory.
Hartman, William A., 248, 140 (Civil Engineering), Hilo, Hawaii; 2536 Manoa Road.
Ishikawa, Yasuo, 299, 142 (Sugar Technology, Chemistry), Kealakekua, Kona, Hawaii; 1448 Emma St.
†Katsuki, Sadao, 196, 107 (General Science, Pre-Medical), 1326 Keau- moku St., Honolulu; University of No. Dakota Medical School, Grand Forks, No. Dakota.
Kerns, Kenneth, 154, 125 (General Science, Pre-Medical), P. O. Box 202, Waipahu, Oahu.
Kerns, Lambert, 150, 125 (General Science), P. O. Box 202, Waipahu, Oahu.
Krauss, Beatrice, 217, 123 (Agriculture), 2447 Parker St., Manoa.
Lee, Soo Nam, 113, 127 (Sugar Technology, Chemistry), 619-A Magellan Ave.

† To receive degree upon satisfactory completion of first year at medical school.
Register of Students

Leong, David, 144, 122 (General Science), 1338 Young St.
Low, James, 188, 181 (General Science), 2236 Young St.
Makino, Kazumi, 243, 135 (Civil Engineering), Honomu, Hawaii; 1441 Lincoln Lane.
McLennan, Ronald H., 166, 134 (Sugar Technology, Agriculture), 2386 Liloa Rise.
Miyake, Iwao, 202, 127 (General Science), Koloa, Kauai; Nuuanu Japanese Church, Kukui and Nuuanu Sts.
Nakamura, Hideo, 135, 126 (General Science), Puuloa, Oahu.
Nakamura, Takeo, 188, 142 (Sugar Technology, Chemistry), 222 Paokalani St.
Nicoll, James Lundie, 171, 90 (29) (Sugar Technology, Agriculture), Paia, Maui; % Mrs. J. P. Cooke, Kewalo St.
Penhallow, Richard, 176, 107 (Sugar Technology, Agriculture), Wailuku, Maui; Men’s Dormitory.
Samson, Walter H., 142, 143 (Civil Engineering), 600 Wyllie St.
Searle, Theodore C., 108, 118 (General Science), 1534 Magazine St.
Takakawa, Sadao, 127, 126 (General Science), 1571 Auld Lane, Palama.
Thompson, Henry, 94, 119 (General Science), 2521 Rose St.
Thompson, Walter, 68, 32 (82½) (General Science), 3828 Pahoa Ave.
Tokimasa, Hidemichi, 220, 124 (General Science), Heeia, Oahu; 610 So. King St.
Tong, Fook Hing, 158, 127 (General Science, Pre-Medical), Hawi, Hawaii; 1927 Coyne St.
Uchiyama, Hoichiro, 146, 104 (General Science, Pre-Medical), Pearl City, Oahu; Jefferson Medical College, Philadelphia, Pa.
Young, Fred Owen, 118, 119 (General Science), Men’s Dormitory.

JUNIOR CLASS

Ainoa, Daniel Kauua, 121, 92 (General Science), 1068 Kaili St.
Aki, Alfred, 129, 89 (General Science), 909 Io Lane.
Betsui, Takeji, 202, 95 (General Science, Pre-Medical), P. O. Box 11, Hanapepe, Kauai; Mid-Pacific Institute.
Brodie, Hugh W., 56, 78 (35½) (Agriculture), Eleele, Kauai; Iolani School.
Carter, Edward W., 119, 97 (Civil Engineering), 160 Kealohilani Ave.
Cornelison, Alexander H., 174, 96 (General Science), 2536 Manoa Road.
Das, Upen德拉 Kumar, 109, 54 (45) (Sugar Technology, Agriculture), Muchikandi, Sylhet, India; H. S. P. A. Experiment Station, Honolulu.
Eremeeff, Vasili S., 150, 75 (25) (Civil Engineering), 2130 Armstrong St.
Hair, Doris, 160, 87 (Home Economics), Hamakua Poko, Maui; Girls’ Dormitory.

† To receive degree upon satisfactory completion of first year at medical school.
Register of Students

Hasegawa, Yoshio, 116, 87 (General Science, Pre-Medical), 1132 2nd Ave., Kaimuki.

Heminger, Murray, 75, 71 (General Science), Men’s Dormitory

Jacobson, Roy Edward, 102, 92 (Agriculture), 3155 Wai'alae Road.

Jain, Sumeru Chandra, 27, 13 (Sugar Technology, Engineering), Arrah, Bihar & Orissa, India; Men’s Dormitory.

Kanaa, Archibald S., 221, 101 (Civil Engineering), Kamuela, Hawaii; 1910 Fort St.

Kamm, Mary, 82, 55 (42) (General Science), 192 So. School St.

Kamm, Tin Pui, 100, 95 (Sugar Technology, Engineering), 128 So. School St.

Keala, Samuel L., 129, 97 (Civil Engineering), 1337 Fort St.

Kodama, George H., 89, 89 (General Science, Pre-Medical), Moanalua, Oahu; P. O. Box 722, Honolulu.

Kum, Kong Lun, 92, 109 (Agriculture), 2734 So. Beretania St.

Kurio, Howard H., 100, 95 (Civil Engineering), Lahaina, Maui; 610 So. King St.

Leong, Edward C. H., 101, 88 (General Science), 1237 Palama St.

Masunaga, Eichi, 140, 91 (General Science), Kalaheo, Kauai; 2105 So. Beretania St.

Matsumura, Edward S., 112, 91 (Civil Engineering), 1318 Alani St.

Mau, Francis, 199, 98 (Civil Engineering), 1635 Young St.

McKeever, Olive, 37, 49 (28½) (Home Economics), Lihue, Kauai; Girls’ Dormitory.

Mizuire, Shizuto, 165, 87 (General Science, Pre-Medical), Pepeekeo, Hawaii; P. O. Box 877, Honolulu.

Moragne, William M., 116, 81 (General Science), Lihue, Kauai; 2378 Vancouver Highway.

Mountcastle, William H., 74, 96 (Civil Engineering), Kahului, Maui; 557 So. Hotel St.

Naramoto, Ichine, 158, 99 (Sugar Technology, Engineering), 2609 So. King St.

Ochiai, Hiroshi, 73, 82 (General Science), 3124 Winam Ave., Kapahulu.

Okazaki, Kyuro, 149, 97 (General Science, Pre-Medical), 695 No. King St.

Penhallow, David, 121, 94 (Civil Engineering), Wailuku, Maui; Men’s Dormitory.

Pratt, Margaret, 118, 56 (22) (General Science), 2048 Nuuanu Ave.

Sakihara, Tadao, 77, 83 (General Science), P. O. Box 187, Waipahu, Oahu.

Shaw, Harold R., 111, 61 (31½%) (Sugar Technology, Agriculture), Quarters 505, Schofield Barracks; Men’s Dormitory.

Suehiro, Amy, 151, 89 (7) (General Science), 1219 7th Ave.

Sweet, Ernest Albert, 106, 89 (General Science), U. S. Quarantine Station, Honolulu.

Takata, Harry, 150, 90 (General Science, Pre-Medical), Waimea, Kauai; 2105 So. Beretania St.
Register of Students

Tashiro, Stewart T., 94, 86 (General Science), 19 Kapena St.
Tejo, Fortunato, 129, 89 (Sugar Technology, Agriculture), Kapaa, Kauai; 1330 Liliha St.
Tyau, George, 108, 87 (General Science, Pre-Medical), 3711 Waialae Ave.
Wedemeyer, Ernest, 99, 96 (Civil Engineering), Lihue, Kauai; Men's Dormitory.
Yamashita, Takeo, 99, 91 (General Science, Pre-Medical), 207 Perry St.
Young, Gordon See, 75, 66 (20) (General Science), 2426 Manoa Road.

SOPHOMORE CLASS

Bush, William McD., 113, 58 (Agriculture), Cottage No. 1, University of Hawaii Campus.
Cheatham, Orme E., 77, 58 (Civil Engineering), Kapaa, Kauai; Men's Dormitory.
Ching, Edward Tim, 51, 53 (General Science, Pre-Medical), Kapaa, Kauai; P. O. Box 1833, Honolulu.
Ching, Hung Wai, 88, 59 (Civil Engineering), 2131 Dole St.
Chock, Hong Pung, 53, 53 (General Science, Pre-Medical), P. O. Box 254, Hilo, Hawaii; 586 Circle Lane.
Chock, Wah Yoke, 99, 57 (General Science, Pre-Medical), P. O. Box 254, Hilo, Hawaii; P. O. Box 1837, Honolulu.
Chung, Nathaniel Wah, 54, 54 (General Science), 904 Tenth Ave.
Dean, Sylvia, 79, 53 (Home Economics), 2226 Hyde St.
Denison, Alice Ray, 107, 53 (Home Economics), 1840 Vancouver Highway.
Doi, Asao, 82, 59 (Sugar Technology, Agriculture), Kaumana, Hilo, Hawaii; 1710 Fort St.
Donaghho, Lila Vogel, 178, 71 (Home Economics), 961 Alewa Drive.
Ebisu, Tsutou, 68, 49 (General Science), Pauuilo, Hawaii; 1220 Pensacola St.
Ellis, Norman Wilson, 86, 54 (General Science), 1428 Piikoi St.
Goo, Ting Fong, 93, 54 (General Science), 1436-D Lunaliio St.
Greig, Edith, 72, 53 (Home Economics), 2376 Oahu Ave.
Hata, Tadao, 101, 53 (General Science, Pre-Medical), P. O. Box 1290.
Itoh, Iwao, 55, 53 (General Science), P. O. Box 780, Honolulu.
Iwanaga, Isamu, 79, 59 (Agriculture), 1936 Fort St.
Iwasaki, Hisao, 71, 91 (Civil Engineering), 1424 No. School St.
Jensen, Jorgen P., 40, 48 (Civil Engineering), Kapaa, Kauai; % A. S.
Kawaguchi, Kenichi, 121, 61 (Agriculture), 1123 Maunakea St.
Kinney, Addison A., 90, 45 (General Science), Waialua, Oahu; % A. E. Robinson, Punahou Campus.
Koike, Clarence S., 66, 55 (Civil Engineering), P. O. Box 21, Holualoa, Hawaii; 1954-C Pauoa Road.
Register of Students

Kutsunai, Toshio, 87, 56 (General Science, Pre-Medical), 1418-A Punchbowl St.

Lee, Kong Hui, 131, 57 (Civil Engineering), 1222 So. King St.

Lee, Rebecca, 117, 54 (General Science, Pre-Medical), 1143 Kalihi St.

Loo, Clarence C. T., 138, 60 (Civil Engineering), 1174 Young St.

Miyasaki, Seichi, 61, 53 (General Science, Pre-Medical), Waialua, Oahu; 1514 Lusitana St.

Moses, Helen, 89, 51 (General Science), 11 John Ena Tract.

Myatt, John Charles, 60, 53 (Civil Engineering), 2366 Oahu Ave.

Okamoto, John T., 120, 59 (Civil Engineering), 2619 So. King St.

Okumura, Albert Mataki, 38, 49 (General Science, Pre-Medical), 1239 So. King St.

Oto, Tadashi, 51, 44 (General Science, Pre-Medical), P. O. Box 40, Olaa, Hawaii; 618 Kalihi St.

Paoa, Fred G. H., 23, 40 (Agriculture), 1917 Beach Walk.

Pyuen, Pyueng Son, 69, 54 (General Science), 1814 Puowaina Drive.

Randolph, Maxwell A., 5, 12 (26) (General Science, Pre-Medical), 3463 Pahoa Ave.

Rhoades, Eunice C., 9, 12 (32) (General Science, Pre-Medical), % 133rd Engineers, Schofield Barracks, T. H.; Castle Hall, Punahou Campus.

Rice, Richard Hans, 66, 57 (Sugar Technology, Agriculture), Lihue, Kauai; Men's Dormitory.

Scribner, Charles W., 69, 44 (Civil Engineering), 64 Judd St.

Shimokawa, Edward T., 103, 58 (General Science, Pre-Medical), Lahaina, Maui; 516 No. School St.

Sproat, Gustaff K., 60, 47 (General Science), Awini, North Kohala, Hawaii; 1927 Coyne St.

Steere, Elizabeth, 36, 16 (32) (Home Economics), 2330 Beckwith St.

St. Sure, John Estes, 55, 59 (General Science, Pre-Medical), Haiku, Maui; Men's Dormitory.

Takahashi, Makoto, 129, 60 (Agriculture), 1023 Desha Lane.

Takemura, Iwao, 44, 55 (Sugar Technology, Chemistry), 1521 Fort St.

Tom, Henry, 132, 61 (General Science, Pre-Medical), P. O. Box 52, Kapaa, Kauai; 1613-3 Fort St.

Waters, Dorothy Claire, 95, 54 (General Science), 118 Kealohilani Ave.


Yamashita, Goonzo, 104, 53 (General Science, Pre-Medical), 435 Hobron Lane.

Yamauchi, Shoyei, 59, 53 (General Science, Pre-Medical), P. O. Box 5, Pauwela, Maui; 1516 Enos Lane.

Young, Eva, 131, 58 (General Science, Pre-Medical), 1333 Pensacola St.

Yuen, Quan Hong, 119, 61 (General Science), P. O. Box 83, Waipahu, Oahu.

FRESHMAN CLASS

Aizawa, Masao, 8, 6 (Sugar Technology, Chemistry), Kihei, Maui; Nuuanu St.
<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
<th>Class</th>
<th>Major(s)</th>
<th>Address</th>
<th>Dormitory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aloiau, Kenneth W.</td>
<td>18</td>
<td>21</td>
<td>Civil Engineering</td>
<td>1253 So. Beretania St.</td>
<td></td>
</tr>
<tr>
<td>Anderson, Robert C.</td>
<td>26</td>
<td>25</td>
<td>General Science, Pre-Medical</td>
<td>2625 Anuenue St.</td>
<td></td>
</tr>
<tr>
<td>Ashton, Courtland</td>
<td>19</td>
<td>16</td>
<td>Sugar Technology, Chemistry</td>
<td>Central Y. M. C. A., Honolulu.</td>
<td></td>
</tr>
<tr>
<td>Bartels, Henry August</td>
<td>11</td>
<td>14</td>
<td>Sugar Technology, Agriculture</td>
<td>Haina, Hawaii; Men's Dormitory.</td>
<td></td>
</tr>
<tr>
<td>Black, Martin James</td>
<td>8</td>
<td>14</td>
<td>Sugar Technology, Agriculture</td>
<td>Kohala, Hawaii; Men's Dormitory.</td>
<td></td>
</tr>
<tr>
<td>Bodrero, Gian Giacomo</td>
<td></td>
<td></td>
<td>Sugar Technology, Chemistry</td>
<td>Tuxedo Park, New York; Men's Dormitory.</td>
<td></td>
</tr>
<tr>
<td>Buchanan, Charles</td>
<td>9</td>
<td>5</td>
<td>General Science</td>
<td>Lahaina, Maui; 1258 Young St.</td>
<td></td>
</tr>
<tr>
<td>Chinn, Alfred K.</td>
<td>5</td>
<td>14</td>
<td>General Science, Pre-Medical</td>
<td>584-G Circle Lane.</td>
<td></td>
</tr>
<tr>
<td>Chong, Kim Kiu</td>
<td></td>
<td></td>
<td>General Science</td>
<td>1625 So. Beretania St.</td>
<td></td>
</tr>
<tr>
<td>Dawson, Ogden Paul</td>
<td>2</td>
<td>2</td>
<td>General Science, Pre-Medical</td>
<td>3365 Pahoa Ave.</td>
<td></td>
</tr>
<tr>
<td>Doi, Ralph T.</td>
<td>22</td>
<td>17</td>
<td>Sugar Technology, Agriculture</td>
<td>921 Kamehameha Ave., Hilo; 10016-A King St.</td>
<td></td>
</tr>
<tr>
<td>Duvauchelle, Henry N.</td>
<td>3</td>
<td>15</td>
<td>Agriculture</td>
<td>Pukoo, Molokai; 1635 Gulick Ave.</td>
<td></td>
</tr>
<tr>
<td>Eguchi, George M.</td>
<td>27</td>
<td>18</td>
<td>General Science, Pre-Medical</td>
<td>460 Kuakini St.</td>
<td></td>
</tr>
<tr>
<td>Ellis, Christian P.</td>
<td>11</td>
<td>17</td>
<td>General Science, Pre-Dental</td>
<td>2952 Park St.</td>
<td></td>
</tr>
<tr>
<td>Ellis, Thomas E.</td>
<td>4</td>
<td>4</td>
<td>Civil Engineering</td>
<td>2156 Lanihuli Drive.</td>
<td></td>
</tr>
<tr>
<td>Fiddes, Robert J.</td>
<td>5</td>
<td>12</td>
<td>Agriculture</td>
<td>Ewa Plantation, Ewa, Oahu.</td>
<td></td>
</tr>
<tr>
<td>Foster, Francis H.</td>
<td>11</td>
<td>8</td>
<td>Agriculture</td>
<td>Kamalo, Molokai; Puowaina and Prospect St.</td>
<td></td>
</tr>
<tr>
<td>Giles, Alfred O.</td>
<td>40</td>
<td>21</td>
<td>Civil Engineering</td>
<td>1048 Kinau St.</td>
<td></td>
</tr>
<tr>
<td>Goo, George W. H.</td>
<td>11</td>
<td>11</td>
<td>Agriculture</td>
<td>539 No. School St.</td>
<td></td>
</tr>
<tr>
<td>Harpham, Elmer</td>
<td>14</td>
<td>18</td>
<td>General Science</td>
<td>736 Wyllie St.</td>
<td></td>
</tr>
<tr>
<td>Hebert, Luke H., Jr.</td>
<td>16</td>
<td>11</td>
<td>General Science</td>
<td>Paia, Maui; 610 So. King St.</td>
<td></td>
</tr>
<tr>
<td>Hirashima, T. George</td>
<td>12</td>
<td>16</td>
<td>Civil Engineering</td>
<td>320-B Frog Lane.</td>
<td></td>
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<tr>
<td>Ho, Kwan Heen</td>
<td>22</td>
<td>17</td>
<td>General Science, Pre-Medical</td>
<td>1585 Emma St.</td>
<td></td>
</tr>
<tr>
<td>Holt, James D.</td>
<td>8</td>
<td>5</td>
<td>Agriculture</td>
<td>1354 Asylum Rd.</td>
<td></td>
</tr>
<tr>
<td>Horner, Clarence</td>
<td></td>
<td></td>
<td>General Science, Pre-Medical</td>
<td>1524 Pensacola St.</td>
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<tr>
<td>Inouye, Kiyoshi</td>
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<td>General Science, Pre-Medical</td>
<td>1146 Austin Lane.</td>
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<tr>
<td>Ito, Kiyoshi</td>
<td>13</td>
<td>18</td>
<td>Agriculture</td>
<td>Kapaa, Kauai; Lehua St., Kalahi-uka.</td>
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<td>Izumi, Katsuyuki</td>
<td>29</td>
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<td>General Science, Pre-Medical</td>
<td>Hana, Maui; Mid-Pacific Institute.</td>
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<td>Johnstone, Ralph W.</td>
<td>6</td>
<td>15</td>
<td>Sugar Technology, Agriculture</td>
<td>2406 Oahu Ave.</td>
<td></td>
</tr>
</tbody>
</table>
Kahanamoku, Sam A., 3, 3 (General Science, Pre-Medical), 1847 Beach Walk.

Kamai, David, 18, 19 (General Science, Pre-Medical), Hilo, Hawaii; 1117 15th Ave.

Katsunuma, Yasushi, 19, 12 (Home Economics), 2304 Metcalf St.

Kawahara, Samuel H., 29, 21 (Sugar Technology, Agriculture), 1368 Fort St.; Mid-Pacific Institute.

Kawahara, Tomosuke, 19, 18 (Civil Engineering), Pahala, Kau, Hawaii; P. O. Box 877, Honolulu.

Kawahigashi, Denichi, 13, 15 (General Science, Pre-Medical), 2259 Hiu St.

Kido, Hisao, 12, 18 (General Science), Olaa, Hawaii; 516 So. King St.

Kim, Yung Keui, 2, 4 (Civil Engineering), 117 SangDan Dong We Wha country Ejim, Korea; Liliha St., P. O. Box 2118.

Kimata, Iwao, 26, 18 (General Science), Eleele, Kauai; 1323 Pua Lane.

Koga, Likio, 29, 18 (General Science), Pahala, Kau, Hawaii; Box 1238, Honolulu.

Kuramoto, Mitsuo, 41, 21 (Civil Engineering), 1229 Young St.

Lam, Howard T. F., 17, 18 (General Science, Pre-Medical), 372 Kukui St.

Lemes, Albert, 14, 15 (General Science, Pre-Dental), 515 Magellan Ave.

Leong, Francis S. F., 21, 21 (Civil Engineering), 1413 Beretania St.

Low, Frank, 27, 18 (General Science), 2236 Young St.

Lum, Ah Chew, 14, 21 (Civil Engineering), Lower Manoa Road.

Maeda, Thomas Hideo, 29, 18 (General Science, Pre-Medical), 1370-D Okala Lane.

Maneki, Mitsugi, 32, 21 (Agriculture), Olaa, Hawaii; P. O. Box 1238, Honolulu.

Masahito, Yasumi, 19, 18 (General Science), 1252 Young St.

Moon, Ina (Home Economics), 1514 Frear St.

Morimoto, Mune, 11, 21 (General Science, Pre-Medical), Waimea, Kauai; 1115-A Pilkoi St.

Murray, Thomas N., 41, 23 (Civil Engineering), Waimanalo, Oahu; Pacific Heights.

Nobriga, William, 0, 3 (General Science, Pre-Medical), Paauilo, Hamakua, Hawaii; Helen’s Court, Honolulu.

Oda, Naaji, 0, 0 (General Science, Pre-Dental), 3890 Sierra Ave.

Ogura, Shiku Ito, 19, 17 (General Science), P. O. Box 736, Honolulu.

Ohara, Kazuto, 29, 16 (General Science Pre-Medical), Pearl City, Oahu.

Ordenstein, Walter (Agriculture), 1298 So. King St.

Ozaki, Paul M., 17, 19 (General Science), 22 So. Vineyard St.

Park, Thomas, 19, 18 (General Science), 1518 Miller St.

Rath, James A., Jr., 11, 14 (General Science), Palama Settlement.

Rhoades, Flora M., 2, 2 (Civil Engineering), 133rd Engineers, Schofield Barracks; Castle Hall, Punahou Campus.

Richardson, George G., 4, 6 (General Science), Hilo, Hawaii; Men’s Dormitory.

Sadayasu, Chiyoko, 34, 19 (Home Economics), % Oahu Country Club.
Register of Students

Sato, Francis Hideo, 21, 21 (Sugar Technology, Engineering), Pearl City, Oahu; Mid-Pacific Institute.
Smith, Percy E., 33, 21 (Civil Engineering), 1209 Wilder Ave.
Suzuki, Edward K., 20, 21 (Civil Engineering), Ewa Plantation; 1224 No. King St.
Suzuki, Jiro, 32, 20 (General Science), 1582-Q Philip St.
Swezey, Joseph A., 24, 21 (Civil Engineering), 2048 Lanihuli Drive.
Tanaka, Edmund M., 3, 13 (General Science, Pre-Medical), Honolulu, Oahu.
Tanaka, Kiyoshi, 14, 15 (General Science, Pre-Medical), Koloa, Kauai; 1427 Hala Drive, McInerny Tract.
Tanaka, Wataru, 11, 12 (General Science), Eleele, Kauai; Old Tantalus Rd.
Tasaki, Toma, 48, 21 (Civil Engineering), 1444 10th Ave., Kaimuki.
Taylor, Leta Thelma, 37, 18 (Home Economics), Makiki Hotel, Honolulu.
Tom, Mon Tok, 10, 21 (Civil Engineering), Waiakoa, Kula, Maui; Mid-Pacific Institute.
Tseu, Solomon Y. P., 2, 8 (General Science, Pre-Medical), 957 8th Ave.
Tsunehiro, David Yutaka, 21, 18 (General Science, Pre-Medical), Kapa, Kauai; 826 So. King St.
Tucker, Leah Cooper, 48, 18 (General Science), 1801 Anapuni St.
Urata, Rokuro, 39, 21 (Sugar Technology, Agriculture), 728 Kunawai Lane, Liliha St.
Vannatta, William C., 9, 19 (General Science), Paauilo, Hawaii; 1214 McCully St.
Weber, Henry L., 18, 17 (Sugar Technology, Chemistry), Mana, Kekaha, Kauai; Men's Dormitory.
Weinrich, William W., 36, 21 (Civil Engineering), 1625 Bingham St.
Wiebke, Henry, 37, 15 (General Science, Pre-Medical), 616-D South Hotel St.
Winsted, Ruth M., 17, 17 (General Science), 3824 Paki Ave.
Wong, James S. F., 22, 20 (General Science), Hawi, Hawaii; 1908 Coyne St.
Yamauchi, Masami, 24, 21 (Civil Engineering), 1335 Palolo Ave.
Yang, Show Hung, 16, 18 (General Science), 1516 Kewalo St.
Yano, Edward Kazuo, 12, 13 (Civil Engineering), Hilo, Hawaii; 411 No. King St.
Yokoyama, Seichi M., 15, 21 (Civil Engineering), Lawai, Koloa, Kauai; 1239 So. King St.

SPECIAL STUDENTS

Akina, Henry, 1920 Lanakila Tract.
Amadei, Nella A., 1250 11th Ave., Kaimuki.
Armstrong, Mabel F., Kahala.
Bilger, Earl Matthias, Meriden, Conn.; Men's Dormitory.
Campbell, Nadine Catherine, Kahala.
Campbell, Dorothy F., 2289 Kamehameha Ave.
Cannon, Glenn D., 985 Alewa Drive.
Carter, Mrs. Ora Weaver, Myrtle Creek, Oregon; 4 Dewey Court.
Chandler, Martha A., 1625 Dole St.
Cooper, Florence, Aiea, Oahu.
Dean, Leora Parmelee, 2225 Hyde St.
Dowar, Margaret M., 2065 Lanihuli Drive.
Elsey, Walter K., Long Beach, Cal.; Elks Club, Honolulu.
Farden, Carl A., Lahaina, Maui; Y. M. C. A., Honolulu.
Fujimoto, Jane K., 1524 Farrington St.
Fujimoto, Giichi, 1524 Farrington St.
Gowans, Helen T., 717 15th Ave.
Graham, Katharine B., 2646 Oahu Ave.
Greenwood, Alice E., 1939 Bingham St.
Kelly, Katherine Harland, Kahala.
Kuwamoto, Kitaro, 3148 Charles St.
Larson, Lillian E., 1565 Pensacola St.
Leebrick, Beryl, 2015 Oahu Ave.
Lemke, Rebecca J., 2337 Sea View Ave.
Luzuriaga, Antonio, Philippine Islands; Hawaiian Board, Filipino Center, Honolulu.
Magarian, Masick Charles, Fresno, Cal.; 1020 Kapiolani St.
Mark, Archibald Y. F., 1417 Beretania St.
Marsh, Hallock D., Brooklyn, N. Y.; 740 Kinau St.
McCallister, Nina B., 1589 Thurston Ave.
McClean, Violet, 2409 Kuhio Ave.
Miyamoto, Koichi, Coral St. near Queen.
Nip, Hing Chong, 1623 Fort St.
Otremba, Hedwig S., 2659 Oahu Ave.
Peterson, Muriel, 2347 Vancouver Highway.
Pope, Della Blanche, U. S. Experiment Station, Honolulu.
Powers, Chester A., Deerwood, Minn.; Punahou School.
Pratt, Dora B., 2040 Nuuanu Ave.
Reierson, Alice F., Salt Lake City, Utah; 1532 Liholiho St.
Robbins, Lorena Coates, Hotel Roselawn.
Scharle, Margaret L., Claremont, Cal.; 1525-C Wilder Ave.
Sideris, Julia, 1527-E Makiki Court.
Skinner, Jeanne K., Makawao, Maui.
Smith, Robert M., 257 Saratoga Rd.
Stocks, Frederie, 251 So. Vineyard St.; Men’s Dormitory.
Thompson, Robert, 3828 Pahoa Ave.
Van Winkle, Edward H., 1536 Dominis St.
Van Winkle, Margaret E., 1536 Dominis St.
Vroom, Emma A., 2065 Lanihuli Drive.
Waldron, Mildred Rena, Santa Monica, Cal.; Fernhurst, Honolulu.
Webster, Marion M., 1836 Punahou St.
Wheeler, Mrs. Herschel, 1417 Makiki St.
Wheeler, Herschel D., 1417 Makiki St.
Register of Students

Whittle, William, 1435 Fort St.
Wilder, Mrs. Elwood C., 1718 Anapuni St.
Wolfe, Grace H., 2159 Kalakaua Ave.
Wright, May, 1054 Kinau St.

COLLEGE OF ARTS AND SCIENCES

SENIOR CLASS

First figure indicates grade points earned, second figure semester hours earned at the University of Hawaii. Figures in parentheses indicate advanced standing credits from another institution.

Aho, Gladys Martin, 23, 15 (96%) (Group IV), 1116-D Wilder Ave.
Bell, Alfred K., 170, 128 (Group I, Pre-Legal), Box 1027, Hilo, Hawaii; 610 So. King St.
Carvalho, Anita, 132, 109 (Group IV), Papaikou, Hawaii; Girls' Dormitory.
Chung, Tai Wha, 90, 103 (Group I, Pre-Legal), 13, 936 No. School St.
Collins, Louis K., 164, 109 (Group IV), 3337 Campbell Ave.
Corell, Bernice E., 258, 125 (Group IV), Hamakuapoko, Maui; Girls' Dormitory.
Faulkner, Gladys H., 81, 44 (62) (Group IV), Punahou Farm School.
Fox, Frances, 43, 17 (111) (Group IV), 2065 Lanihuli Drive.
Frye, Marguerite L., 77, 56 (80) (Group I), 2728 Hillsdale Ave.
Hara, Iwao, 138, 112 (Group II), Waiakea, Hilo, Hawaii; 411 No. King St.
Hornung, Cenie S., 168, 110 (Group IV), 626 Maui St.
Imai, Koichi, 162, 113 (Group V), 2707 So. King St.
Kanayama, Uichi, 270, 121 (Group IV), South and Second Sts.
Katagiri, Masatoshi, 214, 120 (Group I), Waialua, Oahu; Nuuanu Y. M. C. A., Honolulu.
Kawelo, James E., 150, 109 (Group II), 2125-M Bannister Road.
Lam, Elizabeth K. S., 276, 130 (Group IV), 377 Buckle Lane.
Lee, Yun Fat, 139, 112 (Group V), 2136 So. King St.
Loo, Sau Ung, 168, 75 (23) (Group I), 1065 Beretania St.; Yale University Law School, New Haven, Conn.
Louis, Berthie, 208, 117 (Group II), 1060 Koko Head Ave.
Lum, Hardy Chun, 148, 119 (Group IV), P. O. Box 90, Honokaa, Hawaii; 1225 Fort St.
Lydick, Elsie May, 47, 32 (84) (Group II), Salina, Oklahoma; Girls' Dormitory.
McTaggart, Audrey L., 65, 27 (81½) (Group I), Kamehameha Schools.
Park, Esther, 246, 124 (Group IV), P. O. Box 206, Waialua, Oahu; 1521 Frear St.

† To receive degree upon satisfactory completion of first year in law school.
Register of Students

Ryan, Ella-Nora, 89, 75 (36) (Group IV), 626 Maui St.
Sakamaki, George, 182, 106 (Group I), Olaa, Hawaii; 610 So. King St.
Smith, Margaret C., 39, 18 (92) (Group II), 2631 Oahu Ave.
Thomson, Somerville, 219, 83 (34) (Group IV), Punahou Farm School.
Whang, Joon Tai, 137, 118 (Group I), 612-K Weaver Lane.
Wilcox, Kaui, 133, 111 (Group II), Wailuku, Maui; Girls' Dormitory.
Wise, William, 191, 113 (Group I), 1910 Fort St.

JUNIOR CLASS

Abe, Mitsuko, 138, 126½ (Group I), Kurtistown, Hawaii; 2336 Liloa Rise.
Abel, Marielouise, 183, 82 (Group IV), 2136 Lanihuli Drive.
Black, Margaret D., 177, 87 (Group IV), 1020 Kapiolani St.
Chong, Nyuk Yin, 164, 89 (2) (Group IV), 1313 McCully St.
Cohan, Earl, 105, 51 (Group V), Old Naval Station.
Comstock, Lena M., 109, 49 (32) (Group II), Schofield Barracks, T. H.; 1641 Anapuni St.
Cruickshank, James, 67, 90 (Group V), 1445 Kewalo St.
Fernandez, Edwin K., 188, 91 (Group V), 2001 Beckley St.
Field, Edith U. G., 117, 71 (Group IV), 2538 Liliha St. Extension.
Goto, Kenji, 94, 84 (Group V), P. O. Box 13, Kona, Hawaii; 2105 So. Beretania St.
Hawkins, Carolyn F., 18, 20 (60) (Group IV), 1213 Keeaumoku St.
Hawkins, Frank A., 45, 27 (53) (Group I), 1213 Keeaumoku St.
Hee, Young, 56, 80 (Group V), 25 Kauila St.
Hino, Shunma, 165, 87 (Group V), Kukuihaele, Hamakua, Hawaii; 610 So. King St.
Hopper, Lillian L., 84, 74 (Group IV), 1926 Huina St.
Hormann, Bernhard L., 184, 90 (Group II), 1036 Green St.
Iwai, Charles K., 137, 92 (Group V), Upper Manoa Road.
Iwata, Henry Y., 91, 86 (Group V), 2019 Kealoha St.
Jeneson, Pansy Knoll, 30, 16 (79) (Group IV), 3165 Waialae Rd.
Kaneda, Kazuo, 51, 48 (32) (Group I), Yamaguchi, Japan; 1826-C Sereno at Kuakini St.
Karimoto, Clarence K., 187, 90 (Group V), 522 So. Hotel St.
Kekoa, Albert Kaili, 94, 101 (Group V), 1751 No. Queen St.
Koto, Charles J., 128, 83 (Group IV), Eleele, Kauai; Mid-Pacific Institute.
Leong, Quon Sein, 76, 79 (Group V), P. O. Box 154, Waialua, Oahu; % Wo Hop Co., Pauahi and Smith Sts.
Livingston, Evelyn, 53, 45 (27) (Group II), 25 Capitol Building, Honolulu.
Lum, Yin Tai, 161, 98 (Group I), 855 8th Ave. corner Kaimuki.
Makaoi, David, 230, 92 (Group IV), Waipio, Hamakua, Hawaii; 3255 George St.
Matsubayashi, Seisbo, 97, 83 (Group V), 19 Mooheau St., Hilo, Hawaii; 610 So. King St.
Register of Students

Morse, John D., 17, 60 (Group V), Men's Dormitory.
Muramaru, Norikazu, 102, 65 (Group I, Pre-Legal), 1239 So. King St.
Nakamura, Takeo, 88, 78 (Group V), 2609 So. King St.
Nishihara, Matsuji, 73, 82 (Group V), 318 Kalili St.
Nishimoto, Shinkichi, 159, 100 (Group I), Lawai, Koloa, Kauai; U. S. Experiment Station, Honolulu.
Oda, Yoshiye H., 138, 91 (Group V), 2030 Pahukui St., Honolulu; P. O. Box 1268.
Ogawa, Esther Aiko, 186, 86 (Group IV), Paia, Maui; 1071 Kinau St.
Pōepoe, Sam K., 151, 111 (Group I), 768 Kanoa St.
Sakamaki, Shunzo, 217, 101 (Group I), Olau, Hawaii; 610 So. King St.
Sakamoto, Kikuji, 128, 82 (Group III, Pre-Medical), 258 No. Beretania St.
Searby, Margaret L., 134, 75 (43) (Group IV), 903 Spencer St.
Shiramizu, Harry S., 183, 88 (Group I), Hanamaulu, Kauai; Y. M. B. A. Dormitory, Honolulu.
Short, Walter J., 168, 112 (Group I, Pre-Legal), Seaside Hotel, Honolulu.
Smith, Elizabeth L., 67, 72 (2) (Group IV), 1576 Pensacola St.
Suzuki, Taro, 104, 85 (Group V), 1582-Q Philip St.
Tavares, Julia J., 105, 75 (Group V), Paia, Maui; Girls' Dormitory.
Thom, Wah-Chan, 82, 78 (Group V), % Yee Sing Nam Kee, Maunakea St.; P. O. Box 169.
Wong, Hong Chang, 82, 74 (Group IV), 1918 Fort St.
Young, Annie May, 59, 47 (31) (Group II), 945 Alewa Drive.

SOPHOMORE CLASS

Adams, Howard H., 80, 54 (Group V), 1620 Kewalo St.
Ahn, Soon Bong, 44, 48 (Group V), P. O. Box 262, Honokaa, Hawaii; 1520 Fort St.
Anderson, Evelyn M., 48, 39 (Group IV), 2240 Oahu Ave.
Arioli, Walter, 85, 56 (Group I, Pre-Legal), 612-J Weaver Lane.
Bowman, Nina, 62, 44 (Group IV), 2723 Aolani St., Manoa.
Carter, Charlotte E., 65, 42 (Group IV), Alameda, Cal.; Girls' Dormitory.
Ching, George Kee, 110, 48 (Group V), 239 No. Kuakini St.
Ching, Koon Wai, 52, 51 (Group V), P. O. Box 15, Kapaa, Kauai; 1436-C Lunailile St.
Ching, Quan Lun, 51, 51 (Group IV), P. O. Box 86, Hanapepe, Kauai; 1514 Lusitana St.
Chun, Wai Sue, 96, 56 (Group IV), 1050 Beretania St.
Coffin, Ruth M., 31, 17 (34) (Group I), 146 Mill St., Reno, Nevada; 5 Ocean View Court.
Cox, Lydia K., 61, 42 (Group IV), 1138 Hassinger St.
Doty, Christine L., 37, 41 (Group IV), 316 Waianuenue Ave., Hilo, Hawaii; Girls' Dormitory.
Elliott, Rose Meredith, 44, 17 (30) (Group III), Payson, Illinois; 1536 Dominis St.
<table>
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<tr>
<th>Name</th>
<th>Age</th>
<th>Class</th>
<th>Group</th>
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<td>Fleener, Eva Opal</td>
<td>116</td>
<td>53</td>
<td>IV</td>
<td>Waipahu, Oahu</td>
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<tr>
<td>Frye, Kathleen M.</td>
<td>27</td>
<td>17</td>
<td>I</td>
<td>2728 Hillside Ave.</td>
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<tr>
<td>Fujino, Ellen Y.</td>
<td>166</td>
<td>114</td>
<td>IV</td>
<td>1234 Emma Lane</td>
</tr>
<tr>
<td>Gleason, Bertha P.</td>
<td>52</td>
<td>44</td>
<td>IV</td>
<td>Oahu Prison, Honolulu</td>
</tr>
<tr>
<td>Halpern, Florence</td>
<td>58</td>
<td>41</td>
<td>IV</td>
<td>Brooklyn, N. Y.; 167 Kealohilani Ave.</td>
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<td>Hamamoto, Hakumasa</td>
<td>49</td>
<td>49</td>
<td>V</td>
<td>P. O. Box 936, Honolulu</td>
</tr>
<tr>
<td>Hamamoto, Yutaka</td>
<td>54</td>
<td>42</td>
<td>V</td>
<td>Kalaheo, Kauai; 610 So. King St.</td>
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<tr>
<td>Harada, Koichi</td>
<td>56</td>
<td>52</td>
<td>IV</td>
<td>Haiku, Maui; 1710 Fort St.</td>
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<td>Harrison, Margaret</td>
<td>28</td>
<td>40</td>
<td>I</td>
<td>2997 Kalakaua Ave.</td>
</tr>
<tr>
<td>Hayashida, Akiyoshi</td>
<td>101</td>
<td>55</td>
<td>I</td>
<td>2301 No. King St.</td>
</tr>
<tr>
<td>Kaeo, William K.</td>
<td>42</td>
<td>39</td>
<td>I</td>
<td>2570 Lemon Lane, Waikiki</td>
</tr>
<tr>
<td>Kaneko, Richard</td>
<td>34</td>
<td>55</td>
<td>III</td>
<td>586 Circle Lane, Waikiki</td>
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<tr>
<td>Kau, Ruth W. T.</td>
<td>69</td>
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<td>IV</td>
<td>1858 Liliha St.</td>
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<tr>
<td>Kido, Mitsu Yuki</td>
<td>114</td>
<td>54</td>
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<td>Haiku, Maui; 1710 Fort St.</td>
</tr>
<tr>
<td>Lau, K. Y. Chu</td>
<td>49</td>
<td>45</td>
<td>V</td>
<td>961 Dowsett Lane</td>
</tr>
<tr>
<td>Lee, Lillian Yen</td>
<td>105</td>
<td>57</td>
<td>IV</td>
<td>1365 Auld Lane</td>
</tr>
<tr>
<td>Lee, Mary Shin</td>
<td>37</td>
<td>43</td>
<td>I</td>
<td>603 So. Beretania St.</td>
</tr>
<tr>
<td>Lee, Peter</td>
<td>46</td>
<td>54</td>
<td>I</td>
<td>P. O. Box 185, Hilo, Hawaii; 1661 Luso St.</td>
</tr>
<tr>
<td>Leong, Ruby</td>
<td>113</td>
<td>56</td>
<td>IV</td>
<td>1413 Beretania St.</td>
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<tr>
<td>Like, Albert N.</td>
<td>30</td>
<td>45</td>
<td>IV</td>
<td>1602 Kalihi St.; 77 Maunakea and Panahi Sts.</td>
</tr>
<tr>
<td>Liu, Ruth S. J.</td>
<td>50</td>
<td>42</td>
<td>IV</td>
<td>3306 Gazette Ave.; 1645 Bingham St.</td>
</tr>
<tr>
<td>Louis, Marguerite</td>
<td>25</td>
<td>14</td>
<td>II</td>
<td>1045 Beretania St.</td>
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<tr>
<td>Louis, Rose</td>
<td>103</td>
<td>52</td>
<td>II</td>
<td>1060 Koko Head Ave.</td>
</tr>
<tr>
<td>Lydgate, Elwell</td>
<td>67</td>
<td>52</td>
<td>V</td>
<td>2378 Vancouver Highway.</td>
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<tr>
<td>MacKenzie, Violet</td>
<td>34</td>
<td>36</td>
<td>IV</td>
<td>Hilo, Hawaii; Girls’ Dormitory</td>
</tr>
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<td>Matsumoto, Clarence</td>
<td>51</td>
<td>42</td>
<td>V</td>
<td>St. Mary’s Mission</td>
</tr>
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<td>Matsuzawa, Daikichi</td>
<td>123</td>
<td>54</td>
<td>I</td>
<td>1811-A Beach Rd.</td>
</tr>
<tr>
<td>McGill, Andrew C.</td>
<td>34</td>
<td>45</td>
<td>V</td>
<td>1238 Wilhelmina Rise.</td>
</tr>
<tr>
<td>McLane, Karen</td>
<td>121</td>
<td>51</td>
<td>II</td>
<td>2039 Nuuanu Ave.</td>
</tr>
<tr>
<td>McLean, Charlotte</td>
<td>43</td>
<td>29</td>
<td>II</td>
<td>3002 Diamond Head Terrace</td>
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<td>McLean, John</td>
<td>42</td>
<td>45</td>
<td>V</td>
<td>2030 Kamehameha Ave.</td>
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<td>Mihata, Walter W.</td>
<td>46</td>
<td>50</td>
<td>I</td>
<td>1521 Enos Lane</td>
</tr>
<tr>
<td>Morse, Eleanor P.</td>
<td>24</td>
<td>30</td>
<td>IV</td>
<td>1086 Kali St.</td>
</tr>
<tr>
<td>Nagai, Charles T.</td>
<td>35</td>
<td>36</td>
<td>I</td>
<td>P. O. Box 802, Honolulu</td>
</tr>
<tr>
<td>Nobriga, Ruby Susan</td>
<td>97</td>
<td>52</td>
<td>IV</td>
<td>Waianae, Oahu; 1317 Makiki St.</td>
</tr>
<tr>
<td>O’Day, Nina F.</td>
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<td>1156 King St.</td>
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<tr>
<td>Oliviera, Juliette</td>
<td>107</td>
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<td>IV</td>
<td>1541 Fort St.</td>
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<tr>
<td>Pearee, Gladys A.</td>
<td>55</td>
<td>42</td>
<td>IV</td>
<td>1554 Liholiho St.</td>
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</table>
Robertson, George M., 25, 31 (Group I, Pre-Legal), Waialua, Oahu; Men's Dormitory.
Schwallie, Noelani C., 94, 57 (Group IV), Wailupe, Oahu; 935 10th Ave.
Shih, Po, 23, 41 (Group V), 2 Mai Cha Hutung, Peking, China; 1040 Pua Lane.
Shin, Emma, 51, 45 (Group IV), 1535 Lusitana St.
Soga, Shigeo, 56, 41 (Group I), 1518 Spreckels St.
Staples, Edith, 27, 15 (30) (Group II), 224 Emma Square.
Tao, Takeo, 41, 46 (Group V), Koloa, Kauai; 45 Peleula Lane.
Ting, Elsie, 92, 56 (Group IV), 978 Dowsett Lane.
Tsurutani, Daniel, 109, 54 (Group I, Pre-Legal), 1338 No. King St.
Ung, Yook Gan, 82, 53 (Group I), Hilo, Hawaii; 1225 Fort St.
Warren, Mary Gae, (32) (Group IV), Kamehameha Boys' School.
Watanabe, James K., 70, 58 (Group V), 1239 So. King St.
Watanabe, Shichiro, 57, 56 (Group I), 162 Paoakalani St.
West, Nelson Leslie, 47, 48 (Group V), Hawi, Hawaii; Men's Dormitory.
Wong, Margaret, 92, 53 (Group IV), P. O. Box 1, Hawi, Hawaii; 1908 Coyne St.
Woodhull, Flora E., 101, 52 (7) (Group IV), 1521 Lewis St.
Yamano, Harold H., 63, 54 (Group V), Honaunau, Hawaii; 2739 Terrace Drive.
Yanaga, Chitoshi, 113, 64 (Group V), Kealakekua, Hawaii; 1517 Liliha St.
Yap, David T. W., 99, 59 (Group I), 3465 Waialae Ave.
Yap, Mung Yee, 86, 35 (Group I, Pre-Legal), 1139 Beretania St.
Yokoyama, Kazumi, 80, 51 (Group V), P. O. Box 1231, Honolulu.

FRESHMAN CLASS
Allen, Urban Marion (Group II), 420 Waianuenue Ave., Hilo, Hawaii; 1141 So. Beretania St.
Anderson, Dorothy C., 31, 16 (Group IV), Lihue, Kauai; Girls' Dormitory.
Benton, Imogene M., 19, 16 (Group IV), Hanalei, Kauai; 1660 So. Beretania St.
Blake, Emma B., 7, 13 (Group IV), P. O. Box 176, Koloa, Kauai; 1905 Hani Lane.
Broadbent, Alice J., 15, 13 (Group V), Lihue, Kauai; Girls' Dormitory.
Brown, Allen Clark, 9, 12 (Group V), 2522 Jones St.
Buchanan, Genevieve, 18, 15 (Group IV), Lahaina, Maui; Cluett House, Emma St.
Caceres, Alice K., 21, 17 (Group IV), P. O. Box 37, Kohala, Hawaii; 616-H So. Hotel St.
Chamberlain, Warren L., 14, 14 (Group V), 1098 Spencer St.
Ching, Chi Kwan, 0, 3 (Group I), 63 Caine Rd., Hong Kong, China; 1516 Kewalo St.
Register of Students

Ching, George H. Y. (Group V), 19 McGrew Lane.
Chun, Kan Mung, 33, 17 (Group V), 73 New Era Lane, Fort St.
Chung, Dora, 29, 18 (Group IV), 1028 Beretania St.
Cook, Thomas Keonelehua, 14, 17 (Group V), P. O. Box 603, Hilo, Hawaii; Men's Dormitory.
Coykendall, Thaddeus R. B., 31, 18 (Group I, Pre-Legal), El Paso, Texas; 319 Judd St.
Cushnie, Edward F., 12, 15 (Group III, Pre-Medical), Pahala, Hawaii; 2150 Lanihuli Drive.
Day, Olive B., 11, 10 (Group IV), 1250 Koko Head Ave.
Dease, Warren Macdonald, 28, 17 (Group V), 1048 Koko Head Ave.
Downs, Leslie M., 37, 25 (Group V), Go'odyear, Conn.; 2314 Armstrong St.
Duvauchelle, Louise P., 11, 10 (Group I), Pukoo, Molokai; 1635 Gulick Ave.
Fernandez, Walters K., 11, 11 (Group V), 2001 Beckley St.
Fraga, Charles, 10, 10 (Group I, Pre-Legal), 1925 Luso St.
Franson, Ethel May, 38, 18 (Group II), 918 12th Ave.
Fuji, George M., 31, 18 (Group I), Lawai, Koloa, Kauai; 1134 3rd Ave.
Gay, Venus, 22, 17 (Group IV), Lanai; 1611 Keeumoku St.
Hall, Nancy E., 15, 16 (Group I), 1605 Liholiho St.
Hayakawa, Kameju, 19, 17 (Group I, Pre-Legal), Paauhau, Hawaii; 1821 So. Beretania St.
Head, Dorothy D., 6, 12 (Group IV), 2448 Williams St., Denver, Colo.; 17 Dewey Court.
Hew, Kui Seu, 18, 17 (Group I), P. O. Box 74, Paia, Maui; 1252 So. King St.
Hong, Tai Hee, 11, 18 (Group III, Pre-Medical), Lihue, Kauai; 1520 Fort St.
Honijo, James Hukuichi, 10, 11 (Group V), Kapaa, Kauai; Mid-Pacific Institute.
Hopper, Kenneth L. (Group V), 1926 Huina St.
Hormann, Helmuth W., 30, 16 (Group IV), 1036 Green St.
Houston, Iris M., 17, 16 (Group IV), P. O. Box 791, Hilo, Hawaii; Girls' Dormitory.
Imamura, Shinshi, 39, 18 (Group I, Pre-Legal), 1757 Fort St.
Inaba, Minoru, 19, 17 (Group IV), Holualoa, Hawaii; 14 Cunha's Lane No. 5.
Inainia, Moses, 12, 12 (Group IV), Lahaina, Maui; 610 So. King St.
Inouye, Timothy T. (Group V), 488 No. King St.
Iten, Bertha, 5, 9 (Group IV), Hilo, Hawaii; 3059-B Waialae Rd.
Kadota, Sumi, 35, 16 (Group IV), Waialua, Oahu; 1071 Kinau St.
Kai, Herbert A., 45, 17 (Group III, Pre-Medical), 406 Haili St., Hilo, Hawaii; 1610 Kamamalu Ave., Punchbowl.
Kaumeheiwa, Alfred J., 30, 18 (Group I, Pre-Legal), Wailuku, Maui; 1308 Palolo Ave.
Kimura, Win, 12, 15 (Group IV), 2463 Upper Manoa Rd.
Register of Students

Kushi, Edward Josei, 21, 17 (Group III, Pre-Medical), Spreckelsville, Maui; 1275 Corkscrew Lane.

Lee, Kam Tai, 16, 14 (Group I, Pre-Legal), 55 Kukui Lane.

Machado, Melinda Liblon, 12, 12 (Group IV), P. O. Box 587, Hilo, Hawaii; 3242 Fifth and Lincoln Aves., Kaimuki.

McBride, Alice A., 11, 13 (Group V), 2017 Kalia Rd.

McCoy, Daniel, 25, 17 (Group V), Schofield Barracks; Men's Dormitory.

McKeever, Amie Maude, 27, 17 (Group IV), Lihue, Kauai; Girls' Dormitory.

McKenzie, Doris E., 48, 20 (Group IV), 3726 Harding Ave.

McNamara, Robert G., 9, 16 (Group I), 277 Beach Walk.

Midorikawa, Shizu, 48, 18 (Group IV), 18 Kapena St.

Miyazaki, Fuji Deborah, 11, 13 (Group IV), Box 24, Holualoa, North Kona, Hawaii; 610 So. King St.

Murakami, Masao, 16, 11 (Group III, Pre-Medical), Box 38, Hilo, Hawaii; 1578 Nuanau St.

Nagai, Yoshino, 22, 16 (Group IV), 2346 Ferdinand Ave.

Naito, Wallace T., 22, 18 (Group IV), Kapaa, Kauai; 826 So. King St.

Nakamura, Junto, 27, 17 (Group I, Pre-Legal), Box 767, Hilo, Hawaii; 1661 Lusitana St.

Nakamoto, Koto, 32, 18 (Group V), 3722 Waialae Road; 1714 Rocky Hill Rd.

Nakano, Healani, 15, 8 (Group V), 951 So. Queen St.

Nishimoto, Tamayo, 23, 16 (Group I), Lawai, Koloa, Kauai; 2420 Kaala Ave.

Nishimura, Earl K., 24, 18 (Group IV), Pauoa Valley; 1951 Fort St.

O'Connor, Alice R., 15, 15 (Group IV), 1235 Center Ave., Kaimuki.

Onihara, Kikuichi, 28, 17 (Group I), Kalihi Valley; Box 977, Honolulu.

Okumura, Yoshie, 4, 16 (Group IV), 1239 So. King St.

Poepeoe, Martha K., 15, 16 (Group IV), 768 Kanoa St.

Rath, Elizabeth, 32, 17 (Group I), Palama Settlement, Honolulu.

Sadayasu, Mitoichi, 52, 19 (Group I, Pre-Legal), Box 76, Papaikou, Hawaii; Box 1238, Honolulu.

Sagami, Uichi, 21, 18 (Group IV), 1020 Poha Lane.

Saito, Torakichi (Group I, Pre-Legal), Box A, Wahiawa; 2032 Kula Rd., Alewa Heights.

Schreiner, Dorothy E., 25, 14 (Group II), 1627 Anapuni St.

Shimamura, Clarence Y., 36, 19 (Group I, Pre-Legal), 11 McGrew Lane.

Smith, William L., 22, 14 (Group V), 3355 Maunaloa Ave.

Steere, Frederick E., Jr., 28, 17 (Group V), 2330 Beckwith St.

Tanabe, Stephen F. (Group IV), Eleele, Kauai; 1239 So. King St.

Tanaka, Masao, 34, 21 (Group III, Pre-Medical), 1496 So. King St.

Tanaka, Yukio, 27, 17 (Group V), 976 Robello Lane.

Tashima, Takehiko, 7, 14 (Group V), Koloa, Kauai; Honolulu Theological Seminary.

Tavares, Emma R., 23, 13 (Group IV), Paia, Maui; Girls' Dormitory.
Register of Students

Thom, Irwin Wah-Chu (Group IV), 1721 Ahuula St.
Thomas, Frank N., 22, 17 (Group V), Lihue, Kauai; Men's Dormitory.
Towse, Edward A., 12, 11 (Group I, Pre-Legal), 1105 11th Ave., Kaimuki.
Trotter, Marian E., 26, 13 (Group II), 1414 Heulu St.
Tsushima, Jukichi, 13, 15 (Group II), 1240 Young St.
Warner, Helen Doris, 11, 16 (Group II), Schofield Barracks; Girls' Dormitory.
Weight, Charles Richard, 9, 17 (Group V), 2029 Nuuanu Ave.
Widdifield, Jean F., 22, 19 (Group IV), 2121 Atherton Road.
Williams, Nora M., 10, 11 (Group IV), Schofield Barracks.
Yamada, Masao, 22, 17 (Group I), Makaweli, Kauai; 1496 So. King St.
Yamamoto, Shuichi, 21, 14 (Group I), Spreckelsville, Maui; 1275 Corkscrew Lane.
Yamashiro, Ayako, 22, 16 (Group IV), 206 Beretania St.
Yoshizawa, Susumu, 11, 14 (Group V), 1952 corner McCully and Young Sts.
Zane, Fook Kyau, 32, 16 (Group IV), Kohala, Hawaii; 1537 Palolo Ave.

SPECIAL STUDENTS

Avison, Florence, 1703 Clark St.
Baker, Elizabeth L., Sioux Falls, So. Dakota; St. Andrew's Priory.
Banning, Claude G., Kamehameha Schools, Honolulu.
Benson, Erling C., 3643 Pahoa Ave.
Berg, Alice G., 2414 Parker St.
Berkey, Helen L., Portland, Oregon; Punahou Farm School.
Betts, Charlotte B., 1545 Kewalo St.
Bonell, Agnes B., Greeley, Colorado; 224 Emma Square.
Brainard, Scott B., 2420 Kaala Ave.
Branco, Margaret F., 1478 Thurston Ave.
Brown, Margaret M., Los Angeles, Cal.; 2470 Koa Ave.
Bryan, Ilah M., Eureka, California; 220-A Kaiulani Ave.
Burke, Clara, Tulsa, Okla.; Ewa, Oahu.
Canaday, Lotty V., Gross, Idaho; 220 Kaiulani Ave.
Caro, Ida J., Spokane, Washington; 313 Saratoga Rd.
Clarke, Mrs. Adna G., 2125 Armstrong St.
Clissold, Edward LaVaun, 332 Coatsville Ave., Salt Lake City, Utah;
1219 Nakuina St.
Cody, Daza K. B., 1619 Dole St.
Cooper, Marguerite Frances, 1215 8th Ave.
Copp, Della Zoe, 1054 So. King St.
Correa, Eva C., 1041 12th Ave., Kaimuki.
Cruickshank, George B., 1445 Kewalo St.
Cummingsmith, Anne M., 1305 Wilhelmina Rise.
Cummins, Wood K., 1631 So. King St.
Davis, Anna L., 1653 10th Ave.
Register of Students

Deere, Vivian, Oakland, California; 213 Kailulani Ave.
Dietz, A. Margaret, 541 Hotel St.
Doye, Mary E., Chicago, Ill.; Granville Apts., So. King St.
Driver, Agnes P., Lexington, Mass.; 2326 Metcalf St.
Elder, Nell Bradley, 902 Kinan St.
Eldredge, Marie H., West Chester, Pa.; 2656 Kaaipu St.
Enches, Evelyn Leslie, Minneapolis, Minn.; Mid-Pacific Institute.
Engle, Mary Ella, 1028 Carlos Ave.
Faulconer, Grace, 19 Pensacola Ct.
Fennell, Lillian, 2333 Liloa Rise.
Ferreira, Mary Ruth, 1319 Emma St.
Fitzpatrick, Ethelyn C., Fort Kamehameha.
Freitas, Henrietta, 1415 Lauhala St.
Gay, May K., Lalakoa, Lanai; 1611 Keeaumoku St.
Gerdes, Joseph John, Men's Dormitory.
Gilliland, Louise C., 3750 Harding Ave.
Hacker, Edith Emily, 1522 Hastings St.
Hamilton, Florence, 1511 Punahou St.
Harada, Fumiko, 1728 Rocky Hill St.
Harada, Sakiko, 1728 Rocky Hill St.
Hasty, Helen E., Punahou Schools.
Heen, Elizabeth Lulu, 2494 Kalakaua Ave.
Heleluhe, Amy A., Waialua, Oahu; Kailulani Home, Honolulu.
Hendry, Eva, 1945 Kalia Road.
Hewitt, Goldie Louise, 2163 Atherton Road.
Hinckley, Thurston R., Iolani School, Honolulu.
Hodgins, Lucile, Sitka, Alaska; Ewa, Oahu.
Ikeda, George S., Pacific Heights, P. O. Box 780.
Ikeda, Mrs. George S., Pacific Heights, P. O. Box 780.
Ito, Baidho, Shiyuoka-Ken, Japan; 1634 Nuuanu St.
Jackson, Dorothy M., 1600 So. Beretania St.
Jamnik, Francis, 921 Fourth Ave.
Jarrett, Lorna H., 2356 Oahu Ave.
Jones, Dorothy Stultz, 8 Lunahilo Apts.
Kahananui, Dorothy M., 1943 Auhula St.
Kailai, Edith K., 1742 Young St.
Kellogg, Eleanor A., 2656 Kaaipu St.
Kern, Lola, Los Angeles, California; Punahou Schools.
Keyes, Edward C., Omaha, Nebraska; Punahou Farm School.
Kimura, Susumu, 17 Ichome, Denna-Cho, Yotsuya, Tokyo, Japan; 1921 Kalia Road.
Kirkpatrick, Mary Rose, 1527 Makiki St.
Kluegel, May T., 1507 Alexander St.
Kobayashi, Torao, Tokyo, Japan; Y. M. B. A. Dormitory, Honolulu.
Krauss, Dorothea, 2447 Parker St.
Lacy, Estelle, Territorial School for Deaf and Blind, Leahi Ave.
Lam, Mary, 377 Pahala Lane.
Laughlin, Roberta Edith, 2185 Helumoa Rd.
Lee, Samuel K., 1524 Frear St.
Lint, Lalah, 10 Dewey Court.
Lombard, George S., Redlands, Cal.; 2245 Oahu Ave.
Loudermilk, Alonzo B., San Francisco, Cal.; 1840 Anapuni St.
Lyon, Maude Fletcher, 1328 Matlock Ave.
Machado, Edith, 1907 Young St.
Marshall, Emily L., Portland, Ore.; 2211 Hyde St.
Mathews, Sarah E., 2812 Kahawai St.
Matsuno, Moriso, Pearl City, Oahu; Mid-Pacific Institute.
McCoy, Rena, Ewa, Oahu.
McKeague, Mabel Alice, 3212 Lincoln Ave.
McKennie, Sarah A., Hannibal, Missouri; 1054 So. King St.
Mecredy, Frances E., 2248 Kalia Road.
Melim, Evelyn C., 1542 Keeaumoku St.
Merriam, Marion Maynard, 2401 Kalakaua Ave.
Michels, Rochelle R., 209 Lewers Rd.
Minchin, Gerald, 1911 Rocky Hill St.
Mitchell, Mildred B., 2229 Kalia Rd.
Morris, Ople Mae, Roselawn Hotel, Honolulu.
Murphy, Thelma K., 1500 Kapiolani St.
Neill, Bessie Baldwin, Sommerville, Pa.; 1829 Makiki St.
Newman, Mabel Elizabeth, St. Johnsville, N. Y.; 1 Lunalilo Ct., Beretania St.
Otremba, Frances M., 2659 Oahu Ave.
Ozaku, Shokichi, Hamura, Nishitama-gun, Tokyo-fu, Japan; P. O. Box 1101, Honolulu.
Pearson, Marion G., Glasgow, Scotland; 1814 Poki St.
Peet, Jessie S., 903 11th Ave.
Pickering, Opal Riley, 30 Wood St., Dowsett Tract.
Podmore, Glenna, 1801 Rocky Hill St.
Pope, Olive, Milton, Cal.; Ewa, Oahu.
Pratt, Mayno Z., Medina, Ohio; 1701 Kewalo St.
Raaen, Agot, 2065 Lanihuli Drive.
Remick, Grace L., 2450 Kuhio Ave.
Riviere, Claude, Paris, France; Black Point, Kahala.
Roberts, Marion D., 1000 Alewa Drive.
Robertson, Elva, 872 Mission St.
Robinson, Grace Carr, Punahou Campus, Honolulu.
Rugh, Dwight, 1718 Rocky Hill St.
Santos, Flora, 319 Vineyard St.
Sasaki, Yoshinobu, Iwakumi, Yamaguchi Ken, Japan; 1445 Young St.
Schoenfeld, Fred E., Gillette, Wyoming; Luke Field, T. H.
Schonhard, Helen, Seattle, Washington; 2470 Koa Ave.
Schwallie, Leonie Mary, 935 10th Ave., Kaimuki.
Sharp, Grace M., % F. L. Waldron, Vancouver Highway.
Silva, Evonn M., 1056 Alapai St.
Register of Students

Simpson, Opal C., 3643 Pahoa Ave.
Smith, Rose McGuire, Big Store Gap, Va.; Iolani School.
Soares, Lydia D., 3711 Mahina Ave., Kaimuki.
Soares, Olympia, 1483 Pele St.
Soares, Ricarda A., Clubside, Country Club Road.
Sousa, Esther, 1377 Lusitana St.
Spitzer, Selma Hormann, 2001 Vancouver Highway.
Toi, Kenso, Hiroshima, Japan; 180 Kukui St.
Tranquada, Leonilde, 1220 Matlock Ave.
Traut, Gladys, 1120 So. King St.
Travis, Ruth Holmes, 838 10th Ave.
Vivas, Clothilde Dias, 1440 Lihoiho St.
Voeltz, Eva Genevra, Parkersburg, Iowa; Ewa, Oahu.
Walker, James Eugene, Kahala.
White, Julia Blythe, Alexandria, La.; Iolani School.
Wilcox, Eleanor K., 1319 Emma St.
Wilkins, Mildred, 305 Saratoga Road.
Wilson, Gladys Evelyn, Fort Kamehameha.
Wilson, James A., 2711 Pulena St.
Woodhull, Deborah, 1521 Lewis St.
Woods, Ida, Los Angeles, Cal.; 2065 Lanihuli Drive.
Yamamoto, Takeo, Hiroshima, Japan; 1139 Boretania St.
Yap, Ruth L. T., 3465 Waialae Ave.
### Summary of Students

#### SUMMARY OF STUDENTS

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<td>College of Arts and Sciences—</td>
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<td>Freshmen</td>
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<td>Total Candidates for Degrees</td>
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#### NOT CANDIDATES FOR DEGREES

| Specials, College of Applied Science             | 56|
| Specials, College of Arts and Sciences           | 139 195|
| Total Resident Credit Students                   | 683|
| Auditors                                         | 55|
| Total Students in Regular University Courses     | 738|

#### EXTENSION DIVISION STUDENTS

| Credit                                           | 25|
| Non-credit                                       | 694|
| Total Students in Extension Division Courses     | 719|
| Deduct, counted twice                            | 1457|
| TOTAL ENROLMENT (excluding duplicates)           | 1401|

#### GEOGRAPHICAL DISTRIBUTION OF RESIDENT STUDENTS

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QUARTERLY BULLETIN

In 1921 the University of Hawaii commenced the publication of the "Quarterly Bulletin," to be issued four times a year, in October, January, April and August. This catalog is the first number of Vol. V. The preceding numbers were:

Vol. I., No. 1—Register of Officers and Students and Abridged Announcement of Courses, October, 1921.


Vol. I., No. 3—Catalogue and Announcement of Courses, 1922-1923; April, 1922. (Out of Print.)

Vol. I., No. 4—Register of Officers and Students and Abridged Announcement of Courses, October, 1922.

Vol. II., No. 1—Fifth Annual Report of the Department of Agriculture, July 1, 1921-June 30, 1922; January 1923. (Out of Print.)

Vol. II., No. 2—Report of the Board of Regents to the Legislature of 1923; February, 1923.

Vol. II., No. 3—Catalogue and Announcement of Courses, 1923-1924; April, 1923. (Out of Print.)

Vol. II., No. 4—Register of Officers and Students and Abridged Announcement of Courses; October, 1923.


Vol. III., No. 2—Catalogue and Announcement of Courses, 1924-1925; April, 1924.

Vol. III., No. 3—Register of Officers and Students, 1924-1925; October, 1924.

Vol. III., No. 4—Report of the Board of Regents to the Governor and the Legislature of 1925; December, 1924.

Vol. IV., No. 1—Seventh Annual Report of the Department of Agriculture, July 1, 1923-June 30, 1924; February, 1925.

Vol. IV., No. 2—Catalogue and Announcement of Courses, 1925-1926; May, 1925. (Out of print.)

Vol. IV., No. 3—Register of Officers and Students, 1925-1926; October, 1925.

Occasional Papers and Publications

OCCASIONAL PAPERS


OTHER PUBLICATIONS

Before the Quarterly Bulletin was begun two “University Records” were published, following the earlier series referred to below as “College Records.” These two were:—

No. 1. Report of the Board of Regents to the Legislature of 1921. February, 1921; pp. 44.


As “College Records” there have been published previous to July, 1920, some twenty catalogues and reports to the Territorial Legislature.

An earlier series of miscellaneous publications were issued as “Bulletins,” as follows:—

No. 1. Rock, Joseph F. Notes upon Hawaiian Plants, with Descriptions of New Species and Varieties, December 1911, pp. 20.


No. 4. Rock, Joseph F. Palmyra Island, with a Description of Its Flora. April, 1916, pp. 53. (Out of Print.)


### INDEX

<table>
<thead>
<tr>
<th>Page</th>
<th>Administration, officers of</th>
<th>5, 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page</td>
<td>Admission</td>
<td>27</td>
</tr>
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<td>College Entrance Examination</td>
<td>28</td>
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<td></td>
<td>requirements</td>
<td>27, 28, 29, 30</td>
</tr>
<tr>
<td>Page</td>
<td>Advanced degrees</td>
<td>31, 32, 33</td>
</tr>
<tr>
<td></td>
<td>Agriculture</td>
<td>37, 56</td>
</tr>
<tr>
<td></td>
<td>courses in</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>equipment</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>outline of course</td>
<td>38</td>
</tr>
<tr>
<td>Page</td>
<td>Animal husbandry</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>Application for admission</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Applied Science, College of</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Aquarium</td>
<td>22, 109</td>
</tr>
<tr>
<td></td>
<td>Art</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>Arts and Sciences, College of</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Language requirement</td>
<td>51</td>
</tr>
<tr>
<td>Page</td>
<td>Astronomy</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>Astronomical Observatory</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Athletics</td>
<td>22, 99</td>
</tr>
<tr>
<td>Page</td>
<td>Bachelor's degrees</td>
<td>31, 37, 51</td>
</tr>
<tr>
<td></td>
<td>Bacteriology</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>Banking</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>Biological Sciences</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Bishop Museum</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>Botany</td>
<td>62</td>
</tr>
<tr>
<td>Page</td>
<td>Cafeteria</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>Calendar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Ceramics</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>Certificate, admission on</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Charter of the University</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Chemistry</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>Chinese language</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>Civil Engineering</td>
<td>40, 75</td>
</tr>
<tr>
<td></td>
<td>College of Applied Science</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>College of Arts and Sciences</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Commerce</td>
<td>69</td>
</tr>
<tr>
<td></td>
<td>Committees of the Faculty</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Courses, outlines of</td>
<td>37, 52</td>
</tr>
<tr>
<td></td>
<td>Credits defined</td>
<td>24</td>
</tr>
<tr>
<td>Page</td>
<td>Degrees</td>
<td>31, 32, 34, 37, 51, 115</td>
</tr>
<tr>
<td></td>
<td>Dining Hall</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>Dormitories</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>Drawing</td>
<td>60, 79</td>
</tr>
<tr>
<td></td>
<td>Dressmaking</td>
<td>91</td>
</tr>
<tr>
<td>Page</td>
<td>Economics</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>Education</td>
<td>54, 72</td>
</tr>
<tr>
<td></td>
<td>Engineering</td>
<td>39, 74</td>
</tr>
<tr>
<td></td>
<td>Civil engineering</td>
<td>40, 75</td>
</tr>
<tr>
<td></td>
<td>degrees in</td>
<td>32, 37</td>
</tr>
<tr>
<td></td>
<td>drawing and machine design</td>
<td>79</td>
</tr>
<tr>
<td></td>
<td>entrance requirements</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>equipment</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>mechanical engineering</td>
<td>79</td>
</tr>
<tr>
<td>Page</td>
<td>English</td>
<td>81</td>
</tr>
<tr>
<td></td>
<td>entrance requirements</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Entomology</td>
<td>83</td>
</tr>
<tr>
<td></td>
<td>Examinations</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Experiment Station, Association</td>
<td>Haw. Pineapple Canners</td>
</tr>
<tr>
<td></td>
<td>Extension Service</td>
<td>13, 111</td>
</tr>
<tr>
<td></td>
<td>Extension students</td>
<td>24, 113</td>
</tr>
<tr>
<td></td>
<td>Faculty, personnel</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>committees of</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Farm practice</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>Food and nutrition</td>
<td>92, 93</td>
</tr>
<tr>
<td></td>
<td>French</td>
<td>85</td>
</tr>
<tr>
<td>Page</td>
<td>Genetics</td>
<td>58, 59</td>
</tr>
<tr>
<td></td>
<td>General Information</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>General Science course</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>Geography</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>Geology</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>Grade Points</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Graduate students</td>
<td>118</td>
</tr>
<tr>
<td></td>
<td>credit in undergraduate courses</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>matriculation fee</td>
<td>25, 33</td>
</tr>
<tr>
<td></td>
<td>examination of</td>
<td>33</td>
</tr>
<tr>
<td>Page</td>
<td>Grounds</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Hawaii Hall</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Hawaiian language</td>
<td>87</td>
</tr>
<tr>
<td></td>
<td>Hawaiian Sugar Planters' Association</td>
<td>41, 109</td>
</tr>
<tr>
<td></td>
<td>Herbarium</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>History</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td>History of the University</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Home Economics</td>
<td>47, 91</td>
</tr>
<tr>
<td></td>
<td>Home Reading Courses</td>
<td>113</td>
</tr>
<tr>
<td></td>
<td>Horticulture</td>
<td>59</td>
</tr>
<tr>
<td></td>
<td>Household Art</td>
<td>91</td>
</tr>
<tr>
<td></td>
<td>Household Science</td>
<td>92</td>
</tr>
<tr>
<td>Page</td>
<td>Japanese Language</td>
<td>94</td>
</tr>
<tr>
<td></td>
<td>Late registration</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Library</td>
<td>22, 23</td>
</tr>
<tr>
<td></td>
<td>Logic</td>
<td>99</td>
</tr>
</tbody>
</table>
Machine design ........................................79
Master's degree ........................................31, 32, 33
Mathematics ...........................................94
entrance requirements ................................29
Medical course ..........................................34
Military Science and Tactics ..........................27, 95
Millinery .................................................92
Mineralogy ..............................................87
Music ......................................................98

Pedagogy (see Education).
Philosophy ..............................................99
Physical Education ......................................27, 99
Physical Geography .....................................86
Physics ..................................................100
entrance requirements ................................29
Physiology ..............................................102
Pineapple Culture .......................................58, 59, 112
Political Science ........................................102
Pre-Medical course .....................................31
Prizes ................................................... 36
Professional degrees ...................................32, 34
Psychological Clinic ...................................13, 21, 105
Psychological examination ............................2, 27
Psychology ..............................................103
Publications ............................................140
Punahou School of Music ................................98
Quarterly Bulletin ......................................140
Reading room ..........................................23
Regents, Board of .......................................4

Registration days ......................................2
fee for late registration ...............................25
R. O. T. C. ..............................................27
Scholarships ............................................35, 117
School certificates ......................................27
Semesters .................................................24
Short courses ............................................112
Social Service ...........................................53, 93
Sociology ...............................................105
Spanish ..................................................106
Special students .......................................24, 29, 31
Standard of instruction ...............................23
Students, catalogue of .................................118
summary of lists ........................................139
Sugar cane culture ......................................58
Sugar Technology .......................................41, 107
Surveying ...............................................75, 76
Teaching ...............................................72, 74
Textiles ..................................................91
Tuition ...................................................25
University of Hawaii ......................................17
buildings ................................................22
charter ...................................................17
location ..................................................22
organization .............................................21
standards ...............................................23
Waiakea Experiment Station ..........................14, 21
Y. M. C. A. ..............................................27
Zoology ..................................................109