1960 CATALOGUE

Summer Session
Cover: Petroglyphs were a common form of communication and commemoration in old Hawaii. Those on cover are human forms discovered by scientists and students on the islands of Maui and Lanai. The three large figures represent a family group. Sea bird is a drawing made from carvings found on the island of Hawaii.
Thirty-fourth Annual
SUMMER SESSION
University of Hawaii
1960

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The State of Hawaii is a group of islands strung over 1,600 miles in the Pacific Ocean and separated from the mainland by 2,000 miles of water. Situated in the northern margin of the tropics, the Islands enjoy the year round mean monthly temperatures of 70 to 80 degrees. Rainfall, which is influenced by the mountains and winds, varies in different localities.

Known as the "Crossroads of the Pacific," Hawaii is a center of cultural and intellectual activities which dramatically portray the meeting of East and West. Summer activities include Kamehameha Day, June 11, commemorating the birthday of the first king who united the islands under one rule. Bon dances, or Japanese religious festivals, are held at Buddhist centers every weekend from July through August. Orchid shows, summer concerts, hula festivals, theatre plays, art shows, are other programs planned for the Hawaiian summertime.
SUMMER SESSION
1960

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The inscription "Above All Nations is Humanity" on Founders' Gate symbolizes an intellectual climate in which students of varied ethnic backgrounds study and work.
General Information

THE UNIVERSITY OF HAWAII is located in Honolulu, on the island of Oahu. It is three miles from the business center and two miles from Waikiki Beach. Manoa Valley, where the University is situated, is one of the most picturesque sections of the city. The University's landholdings total some 710 acres.

Established by the territorial legislature in 1907, the University became a State University when Hawaii became the 50th State of the Union in 1959. It is a federal land-grant institution, sharing in benefits from the Second Morrill Act of 1890, the Nelson Amendment of 1907, and subsequent legislation. The University has seven colleges: the College of Agriculture, the College of Arts and Sciences, the College of Business Administration, the College of Education, the College of Engineering, the College of General Studies, and the College of Nursing.

In addition to the bachelor's degree, the University offers graduate work leading to the master's degree in animal science, anthropology, art, bacteriology, botany, business administration, chemistry, drama and theatre, economics, education, English, entomology, Far East studies, genetics, geography, government, history, mathematics, nutrition, Pacific Islands studies, philosophy, physics, psychology, social work, sociology, soil science, speech, tropical crop science, and zoology; and to the Ph.D. degree in botany, chemistry, entomology, genetics, psychology, soil science, and zoology. There are about 500 instructional faculty members and many staff members engaged in full-time research.

The University of Hawaii is accredited by the Western College Association. Its classes are open to all academically qualified men and women, regardless of race, nationality, or religion. Its students may transfer to other American universities and to foreign universities on the same basis as students of other accredited American universities. It has chapters of the national honor societies Phi Beta Kappa, Phi Kappa Phi, Sigma Xi, Omicron Delta Kappa, and Delta Sigma Rho.

Besides an academic year of two 18-week semesters, the University has a 6-week summer session. In addition, there are two successive 5-week terms in the summer, during which a number of freshman and sophomore year courses are taught, and a 3-week postsession.

LIBRARY AND RESEARCH FACILITIES

GREGG M. SINCLAIR LIBRARY. The University Library, named after Dr. Gregg M. Sinclair, president emeritus, is a beautiful building of modern design. It contains over 280,000 bound volumes and over 700,000 unbound pieces; and it subscribes to 4,280 current periodicals and other continuations. The well-lighted reading rooms provide study facilities for 950 students at a time. To make the books conveniently accessible, the stacks are adjacent to reading areas and are open to all students. Besides a well-rounded general collection, there are the following special collections: Government Publications, Teachers College Collection, Maps and Microfilm, the Hawaiian Collection, and the Oriental Collection with more than 80,000 volumes in Chinese, Japanese, and Korean. The reference and general reading room, where expert reference service is avail-
able, contains about 5,000 reference books and the current numbers of 1,500 periodicals and mainland newspapers. The Library is exceptionally strong in materials relating to the Far East and to the Pacific Ocean area.

RESEARCH FACILITIES AND CENTERS. The Human Relations Area Files collection is the product of an organization, supported by 16 major universities, which systematically places basic information on various societies of the world in files maintained at each member institution. Each file in this unique collection, located in the University Library, contains facts about a people or region that are judged to be of value to students of human behavior, social life, and culture. The Industrial Relations Center seeks to promote a sound understanding of labor management problems in the community. It provides for public use a library and reference service of materials relating to labor management and relations; promotes lectures, conferences, and discussion groups; and conducts research on basic industrial relations problems. The Romanzo Adams Social Research Laboratory is staffed by members of the Sociology Department, and is concerned primarily with sociological studies relative to the peoples of Hawaii. It has one of the best collections of materials available anywhere in the field of race relations. The Psychological Research Center performs basic and applied research on problems involving the scientific approach to human behavior. It serves as a research and informational agency to which business, industry, labor, government, and others may bring psychological problems.

The Legislative Reference Bureau engages in research on problems of interest to all branches of the state government, with particular emphasis on matters of legislative concern. It also drafts bills and services legislative committees, and maintains a selective library on public administration and state government. The Land Study Bureau performs research on present and potential use of rural and urban lands, relative suitability of different lands for various uses, and problems related to land usage. The objective is to provide systematic information useful to better utilization of Hawaii's land resources through land classifications and related economic studies. The Social Science Research Institute channels the research interests of social scientists including especially those of an inter-disciplinary nature. The Institute maintains a file of social science research projects currently underway or projected for the immediate future at the University. The Economic Research Center studies the effects of proposed and enacted legislation and of national and international developments on the economy of Hawaii, and performs basic economic research necessary for the operations of various governmental agencies in Hawaii. It was established by the Hawaiian legislature and is the recipient of a research grant from the U.S. Small Business Administration.

ASIAN STUDIES AND OVERSEAS OPERATIONS. Pursuant to the authority granted by the new state of Hawaii, the University of Hawaii has instituted two new programs to train outstanding individuals in Asian Studies and Overseas Operations. The Asian Studies program provides coordinated study plans and courses in the Asian field for students at an undergraduate level. Students may elect to major in Asian Studies, or to combine such studies with majors in other fields. Inquiries should be addressed to the Director, Dr. Thomas H. Ige. The Overseas Operations program offers individual study plans in the Asian field at a graduate level. These study programs are to fit selected students for service in Asia with international organizations, agencies of government, and private institutions. Inquiries should be addressed to the Director, Dr. John N. Stalker.
CO-OPERATING INSTITUTIONS. The Pacific and Asian Affairs Council has an excellent library on world affairs, located in Pacific House, adjacent to the University. The Bernice P. Bishop Museum and the Honolulu Academy of Arts have superb collections and research facilities available to University students. The three foregoing institutions offer special memberships to students. Also in Honolulu are: the Library of Hawaii, a general public library; the Hawaiian Mission Children's Library, with material on missionary activities in the Pacific; the Public Archives, emphasizing Hawaiian history; the scientific libraries of the Hawaiian Sugar Planters' Association, the Pineapple Research Institute, and the Bureau of Commercial Fisheries; and the communications library of the Hawaiian Telephone Company, the law library of the State Supreme Court, and other special libraries.

UNIVERSITY LABORATORY SCHOOLS. Demonstration classes are conducted in the College of Education laboratory schools in connection with summer session offerings for teachers. In order to insure a rich experience for the children enrolled, conditions are made as nearly ideal as possible, with small classes, selected children, and a strong supervising staff assisted by specialists in art, health, library science, physical education, music, speech, and drama.

Deep concentration and seriousness of purpose seem to be reflected in the faces of these scholars, part of the nearly 7,000 enrolled in last year's summer session. As the center of advanced education in the Pacific the University of Hawaii attracts students from many foreign countries and the other 49 states.
Academic Information

ADMISSION. Persons wishing to take courses for credit must present satisfactory evidence of ability to do university work. Graduate and undergraduate students in good standing at colleges or universities other than the University of Hawaii may submit either a transcript of their college records or a special printed certificate properly filled out by the Registrar or Dean of their institution. Copies of this certificate may be obtained from the office of the Dean of Summer Session. One is enclosed with each Summer Session catalogue sent to a person outside Hawaii. High school graduates who have been granted admission by an accredited college or university may submit the aforementioned certificate. Others entering college for the first time should write to the Director of Admissions of the University of Hawaii for information as to entrance examinations and other procedures. This should be done as early as possible. Teachers in service may have the aforementioned certificate signed by their superintendent or comparable supervising official.

AUDITORS. Mature persons who wish to attend certain classes regularly, without taking examinations or receiving grades or credit, may do so by registering as auditors and paying the regular tuition fees charged for the courses in which they desire to enroll. A student may be both a credit student and an auditor but the total hours involved must not exceed the maximum program allowed students. Auditors are not allowed to participate in class discussions or recitations or to use laboratory or studio equipment and materials. They are not subject to late registration fees. For the schedule of refunds, see Refunds.

VISITORS’ TICKETS. Since the summer session provides an opportunity to hear classroom lectures given by many distinguished professors in various fields, visitors’ tickets are available to mature persons who wish to visit different, unspecified lecture classes without examination or credit. These tickets may be obtained upon payment of $40.00 and with the approval of the Dean of Summer Session. The visitor’s ticket must be shown upon demand and entitles the bearer to attend any classroom lecture if there is an available seat. Visitors are not to participate in classroom discussions or recitations or examinations, or to use laboratory or studio equipment and materials. A visitor’s ticket may be cancelled, without refund, if these conditions are violated.

VETERANS. The University of Hawaii is authorized to enroll veterans under Public Laws 16, 550, 634, and 894. Students registering for the first time under these Laws should bring with them either their Certificate of Eligibility and Entitlement, or their Certificate for Education and Training.

SCHEDULE CHANGES. The University reserves the right to make changes in faculty assignments and in time schedules, to cancel any course that does not draw adequate registration, and to set maximum limits for enrollment in certain classes. A final mimeographed schedule including changes made after the publication of the catalogue will be available at registration time.

STUDENT PROGRAMS. Undergraduate students in the six-week summer session are ordinarily limited to a maximum program of six credit hours. However, in exceptional cases, seven credit hours may be carried by a student provided
he obtains the consent of either the dean of his college or the Dean of Summer Session. Eight credit hours may be carried only by a student who needs that number of credits to complete his requirements for a bachelor's degree or a certificate at the end of the summer session, and only upon the approval of a college dean or of the Dean of Summer Session. During the postsession, student programs are limited to four credit hours. The foregoing limitations apply to all student programs, including work taken concurrently in the College of General Studies.

Undergraduate students are urged to consult the chairman of their major department prior to registration time, if possible, for advice as to which courses to take in summer. Faculty advisers will be available on registration day, June 20, as noted in the registration instructions that will be issued to students on that day.

Students taking the intensive five-week courses in language, history, and business are advised not to register for more than one or two additional credits without first consulting their instructors.

Graduate students may carry seven credits during the six-week session. The approval of the Dean of the Graduate School is necessary for any heavier course load. Graduate students are urged to consult the office of the Dean of the Graduate School as to courses that will be accepted for graduate credit. This should be done before June 20 if possible. The Graduate School Bulletin lists courses acceptable for graduate credit.

REGISTRATION. Registration for the six-week summer session and the first five-week term will take place on Monday, June 20, between 8:00 a.m. and 4:00 p.m. Students are to go to Rooms 150 and 152 in Bilger Hall where they will be issued registration materials according to the following time schedules: those whose last names begin with the letters A through G, at or after 8:00 a.m.; H through L, at or after 9:30 a.m.; M through S, at or after 11:00 a.m.; and T through Z, at or after 1:00 p.m.

Registration procedures will be detailed in printed instructions distributed to students at the foregoing times. After finally submitting all required forms and cards to the Records Office in Bachman Hall on Monday, June 20, students may either wait for their fee slips and pay their fees at the Business Office on the same day or come back to do so on the following day. If fees are not paid by these students before 4:00 p.m. on Tuesday, June 21, however, the late registration fee of $5.00 will be assessed. (See Tuition and Fees.)

Students registering for the second five-week term will be issued the requisite materials at the Records Office in Bachman Hall between 8:00 a.m. and 12:00 noon on Monday, July 25, without alphabetical time groupings.

Students registering for the three-week postsession will start attending classes on Monday, August 1. They may register at any time between 8:00 a.m. and 4:00 p.m. on that day or between 1:00 p.m. and 4:00 p.m. on the preceding Friday, July 29.

LATE REGISTRATION. On June 21 and June 22, students may register for six-week and five-week courses only with the consent of the appropriate dean; and on June 23 and June 24 only with the approval of both the dean and the instructor concerned. From June 27, students may not register for credit but may be admitted as auditors with the consent of the Dean of Summer Session and the instructor concerned.

During the second five-week term, late registration will be permitted on July 26 and July 27 only with the approval of the appropriate dean, and on
July 28 and July 29 only with the approval of both the dean and the instructor concerned. From August 1, students may not register for credit but may be admitted as auditors with the consent of the Dean of Summer Session and the instructor concerned.

During the three-week postsession, late registration will be permitted on August 2 and August 3 only with the approval of the Dean of Summer Session and the instructor concerned. From August 4, students may not register for credit but may be admitted as auditors with the consent of the Dean of Summer Session and the instructor concerned.

TUITION AND FEES. There is no registration fee. The tuition fee is $10.00 per credit hour and must be paid by all persons who register for courses, either for credit or as auditors. There is no additional charge for nonresidents. Laboratory and other fees are charged for certain courses, as stated in this catalogue or in the mimeographed announcement issued at registration time. An activity-and-health fee of $2.00 must be paid by all students registered in either the six-week summer session or the first five-week term.

Registration is not complete until all fees have been paid. A penalty fee of $5.00 will be charged any student who does not complete his registration on time and any student who applies for registration between June 22 and June 24, the period during which late registration for credit may be permitted. The late registration fee of $5.00 will also be charged for the second five-week term on July 26–29, and for the postsession on August 2–3. There is a charge of $2.00 for any change in registration after the initial registration unless waived for good cause by a college dean or the Dean of Summer Session. Fines for violating campus parking rules and library fines must be paid promptly. Students are expected to learn the parking and library rules.

REFUNDS. A student in good standing who withdraws from courses in the six-week summer session or the first five-week term may obtain a 60 per cent refund of tuition and laboratory fees until 4:00 p.m. Thursday, June 23, and a 20 per cent refund thereafter until 4:00 p.m. Tuesday, June 28. After June 28, no refunds will be made.

During the second five-week term a student may obtain a 60 per cent refund until 4:00 p.m. Thursday, July 28, and a 20 per cent refund thereafter until 4:00 p.m. Tuesday, August 2, after which there will be no refunds.

During the three-week postsession a student may obtain a 60 per cent refund until 4:00 p.m. Wednesday, August 3, and a 20 per cent refund thereafter until 4:00 p.m. Friday, August 5, after which there will be no refunds.

No part of the $2.00 activity-and-health fee or the $40.00 visitor’s ticket is subject to refund.

PERSONAL CHECKS. Personal checks will be accepted for payment of summer session tuition and fees only when the amount of the check does not exceed the amount due from the student.

GRADES AND EXAMINATIONS. Final examinations are given in all courses unless other methods of grading are authorized by the Dean of Summer Session. The final examination is usually given at the last scheduled meeting of the class. Unless satisfactory arrangements have been made with the instructor in advance, absence from the final examination will be counted as "0" (zero) in computing the grade for the course. Special examinations for individual students are not permitted, as a general rule, and need the approval of a college
The Japanese dance is performed by men and women students as part of their work in "Japanese Dance and Its Music." The music curriculum also lists "Korean Dance and Its Music"; "Pacific and Asian Music"; and "Music of the Far East."
1959 ENROLLMENT. A record enrollment total of 6,976 was reached in 1959, surpassing the 1958 total by nearly a thousand students. Eighty came from foreign countries and about 2,000 from 47 other states, including 693 from California, 99 from Texas, 94 from Illinois, 85 from Washington, and 79 from Michigan. About 45 per cent of the enrollees were graduate students.

DISTINCTIVE OFFERINGS. Course offerings are being increased each year, to keep pace with the growing enrollment. Moreover, in addition to standard courses comparable to those given at other American universities, there are many distinctive offerings not generally available elsewhere. As an illustration, the 1960 summer program presents some 35 courses on Asian and Pacific subjects such as Arts of the Pacific, Traditional Arts of the Pacific Rim, an interdisciplinary course on Asia, Symbolism in Chinese Literature and Art, Principle and Technique of Chinese Calligraphy, Economic Problems of Asia and the Far East, Economic Development of the Soviet Union (with emphasis on Soviet activities in Asia), Chinese Language, Comparative Education—the Orient, Literature of Modern India in English, Literature of the Pacific, Government and Politics of China and Japan, Dances of Hawaii, History of Australia and New Zealand, History of Southeast Asia, Cultural History of China, Topics in the History of Chinese Culture, Modern History of Japan, History of India, Pakistan and Ceylon, History of the Pacific Islands from 1779, History of the Hawaiian Islands, Indonesian Language, Japanese Language, Japanese Dance and Its Music, Korean Dance and Its Music, Pacific and Asian Music in Education, Music of the Far East, Individual Instruction in Hawaiian Chants, The Living Religions of Hawaii, Community Forces in Hawaii, Peoples and Institutions of China, Race Relations in Southeast Asia, Hawaii and Its People, and Thai Language.

INTERNATIONAL CONFERENCE ON GENERAL SEMANTICS. The second international conference (the first was at Mexico City in 1958) will be held in Honolulu July 31–August 5 under the joint auspices of the University of Hawaii, the International Society for General Semantics, and the Institute of General Semantics. The program chairman will be Dr. S. I. Hayakawa, editor. ETC.: A Review of General Semantics. Other distinguished figures in the field of general semantics who are expected to participate in the conference include Dr. Earl C. Kelley, Miss M. Kendig, Dr. Russell Myers, Dr. Anatol Rapoport, Dr. Elwood Murray, and Dr. Weller Embler. It is anticipated that the conference will be attended by several hundred persons. Inquiries should be directed to the executive secretary of the conference, Dr. Elizabeth B. Carr, University of Hawaii, Honolulu 14, Hawaii.

SEMANTICS COURSES. During the six-week summer session preceding the aforementioned international conference, Dr. S. I. Hayakawa will offer two courses, SEMANTICS (Speech S 440) and EDUCATIONAL IMPLICATIONS OF THE SEMANTIC THEORY (Education S 551). Dr. Anatol Rapoport will offer THE SEMANTICS OF MUSIC (Music S 363) and THE LANGUAGE OF MATHEMATICS (Philosophy S 570). Dr. Earl C. Kelley will be teaching at the Hilo Center, where discussions of semantic problems and practices will be held.
During the postsession, August 1-19, a 3-credit Seminar in Semantics (Speech PS 640) will be offered, with various eminent semanticists as lecturers and seminar leaders. Attendance at the international conference on general semantics will be part of the course. The course fee, including membership fee in the conference, will be $50.00. Applications for enrollment in the course should be submitted before April 15, 1960, to the Dean of Summer Session, University of Hawaii, Honolulu 14, Hawaii.

SUMMER INSTITUTE ON ASIAN STUDIES. Americans are becoming increasingly more aware of the need for a fuller knowledge of Asia. To help meet this need the first summer institute was held in 1959. It was eminently successful from many points of view. Nearly ninety persons were enrolled, including teachers from many parts of the country, newspapermen, civic leaders, and a general, five colonels, and fourteen others from the armed forces. Ten full scholarships were awarded with a joint grant from the Asia Foundation, the Asia Society, and the Japan Society of New York.

The 1960 institute will include lectures by Chiang Yee, famed author of the Silent Traveller books; Dr. Wing-tsit Chan, of Dartmouth; Dr. Edward H. Schafer, of the University of California; Dr. Robert I. Crane and Dr. Ronald S. Anderson of the University of Michigan; Dr. Robert F. Spencer, of the University of Minnesota; Dr. Martin C. Carroll, Jr., of the U.S. Embassy at New Delhi; and Asian specialists resident in Hawaii. There will also be various special programs, including lecture-demonstrations of Asian music and dances, Asian movies, informal Asian dinners, and discussions and forums.

Membership fee is $75.00. This covers tuition for six credits, the activity-and-health fee, printed materials, field trips, Asian dinners and other special programs. Persons desiring to enroll in the Institute should write at once to the Director, Dr. John A. White, University of Hawaii, Honolulu 14, Hawaii.

STUDY TOUR TO THE ORIENT. June 29–August 14. A forty-day tour of the Orient, preceded by a week of campus lectures and other programs, will be offered by the University of Hawaii, with Dr. Robert W. Clopton, Chairman of the Department of Education, as educational director (see Asian Studies S 620). The tour includes Japan, Taipei, Manila, Saigon, Angkor Wat, Bangkok, Singapore, and Hong Kong. Dr. Clopton taught a very successful 5-credit course on Education in the Pacific in the 1959 summer session. Travel arrangements will be handled, as with previous study tours, by Mrs. Ruth Rittmeister, manager of the Royal Hawaiian International Travel Service. Inquiries about the Orient Tour should be directed to Dr. Robert W. Clopton, University of Hawaii, Honolulu 14, Hawaii.

SUMMER WORKSHOP IN AVIATION EDUCATION. The airplane, the rocket, the man-made satellite, and the prospect of interplanetary travel have had so great an impact on contemporary life that the University of Hawaii, in co-operation with Civil Air Patrol and the U.S. Air Force, is offering two five-week workshops in Aviation Education for teachers, June 27 through July 28.

One of the workshops (see Education S 395) will enable teachers to help their pupils understand the basic principles of flight and to appreciate the increasing importance of air travel and the aviation industry as aspects of the world in which they live. It will explain to teachers the new concepts of space and time developed by aviation and help them to interpret to their pupils the air-age projections used in modern maps, and introduce them to some of the major
Dr. Wernher von Braun, the nation's top space authority, talks with his young attendants at last workshop's space symposium. The chief of the Army Ballistic Missile Agency and other eminent authorities in the same field are expected to take part again in symposia on rockets, missiles, satellites, and interplanetary space travel.

social, economic, political, and international problems resulting from the rapid expansion of aviation. The second workshop (see Education S 695) is for teachers who have already taken work comparable to that offered in the first. It will concentrate on the production of curriculum materials and the provision of teaching methods for use at all levels of the school. Both workshops will feature symposia on rockets, missiles, satellites, and interplanetary space travel, with eminent authorities on these topics as panel members and lecturers.

Each workshop will carry five credits (credits for Education S 695 are graduate credits). Instruction will be handled by Air Force Officers who are regular members of the University of Hawaii faculty. The workshops will meet four days a week (Monday through Thursday) from 8:00 a.m. to 4:00 p.m. The “long week-ends” (Friday through Sunday) will be open for recreation, travel, and study. Headquarters will be the Princess Kaiulani Hotel at Waikiki, where rooms have been reserved for teachers who will enroll for one or the other of the workshops.

Tuition and course fee for each workshop is $65.00. For further information, write to the Dean of Summer Session.

INSTITUTE FOR SCIENCE AND MATHEMATICS TEACHERS. The present crisis in science has been dramatically highlighted by recent events on the international scene. The important role of secondary school teachers in motivat-
ing our young people to choose scientific and mathematical careers has been recognized. To assist teachers in fulfilling this role, and improving their subject matter competence, the National Science Foundation has made a grant to the University of Hawaii to conduct a Summer Institute.

The Institute will be divided into two sections: science and mathematics. A student participating in the Institute is to elect two courses within his chosen section. He will be encouraged, but not required, to stay within one section. For basic Institute courses, see page 50.

The Institute will be held on the University campus for six weeks and will coincide with the regular summer session. Stipends will be provided from a grant made by the National Science Foundation for 80 participants. Stipend amounts will depend on the degree of dislocation necessary for the participant to attend the Institute, but may be as much as $450.00 for the six weeks. Limited allowances are provided for dependents and for travel. A committee will evaluate the qualifications of applicants in awarding the stipends. The Institute will also be open to a limited number of teachers who do not receive stipends.

The Institute will be directed by Dr. Albert J. Bernatowicz, Chairman of the Department of Science. Application should be made to the Director.

INSTITUTE IN RADIATION BIOLOGY FOR HIGH SCHOOL AND COLLEGE TEACHERS. A Summer Institute for a maximum of twenty teachers will be held on campus, June 20–July 30, under grants from U.S. Atomic Energy Commission and the National Science Foundation. Among other objectives, this Institute will seek to improve the subject-matter competence of the enrollees in their biology classes, particularly in the techniques and applications of isotopes in biological materials. It is hoped that, as one result of the work of the Institute, more of the enrollees' abler students will be stimulated into preparing for careers in biology or radiobiology. For the two basic courses to be given in the Institute, see pages 50–51.

Stipends and allowances for dependents and travel will be awarded the twenty teachers who are selected for enrollment. The deadline for applications is February 15, 1960. For application forms and further particulars, write to the Director of the Institute, Dr. Sidney C. Hsiao, University of Hawaii, Honolulu 14, Hawaii.

SYMPOSIUM ON EDUCATION. A Symposium on Current Theory and Research in Education will be presented on three successive Thursday evenings, starting July 7, under the joint auspices of the University of Hawaii Summer Session, the College of Education, and the Psychological Research Center. A group of six outstanding American educators will be invited to present papers, two per evening. After the presentation, each paper will be discussed by others of the group, following which questions and comments from the audience will be entertained. The Symposium will be open to the public without charge. Inquiries may be directed to the chairman of the planning committee, Dr. Robert E. Grinder, University of Hawaii, Honolulu 14, Hawaii.

PUBLIC LECTURES. On successive Tuesday evenings, free public lectures will be presented by the University, featuring some of the distinguished visiting professors who will be teaching in the summer session. These summer lectures have drawn tremendous audiences each year.
CONFERENCE OF ELEMENTARY SCHOOL PRINCIPALS. July 5–15. In view of the growing interest in East Asian nations and peoples among American teachers, the University of Hawaii, the Department of Elementary School Principals of the NEA, and the NEA International Relations Committee are jointly sponsoring a conference, July 5-15, 1960, at the Hawaiian Village Hotel. The conference program will be focused on a 2-credit course on CURRICULUM DEVELOPMENT FOR INTERNATIONAL UNDERSTANDING (see Educ. S 562), and will concentrate much attention on the introduction of knowledge of East Asian countries into the curriculum of the elementary school.

Noted scholars will speak at general sessions each morning of the conference. These lectures will be followed by clinic sessions discussing specific applications of the ideas presented in the lectures. Afternoon sessions will feature seminars in curriculum planning, to develop actual teaching content, methods and tools to enrich the curriculum of the elementary school. Membership fee is $50.00, which covers both tuition and conference fees. Inquiries should be addressed to the Director, Dr. John B. Crossley, University of Hawaii, Honolulu 14, Hawaii.

CONFERENCE OF NEA DEPARTMENT OF CLASSROOM TEACHERS. July 5–15. Renewed interest in Hawaii resulting from her admission as the 50th State is reflected in thousands of classrooms throughout the nation. One result of this interest is the decision of the Department of Classroom Teachers of the NEA to hold its 17th Classroom Teachers National Conference in Hawaii from July 5-15.

The University of Hawaii and the Hawaii Education Association are co-sponsors of the conference, which will have its headquarters at the Kamehameha Schools on Kapalama Heights.

The conference program will focus on a two-credit course on HAWAII IN THE SCHOOL CURRICULUM (see Educ. S 561), and will concentrate on providing teachers with information and background about Hawaii which they can incorporate in their classroom instruction. Authorities on various aspects of the Hawaiian scene will address general sessions of the conference. These lectures will be followed by smaller discussion groups which will be led by persons well versed in music, folklore, race relations, and island literature. Conducted tours will enable conference participants to view sugar and pineapple production, armed services installations, and public and private schools as facets of the total Hawaiian scene.

Enrollment in the course HAWAII IN THE SCHOOL CURRICULUM is optional for members of the conference, but is not open to others. Inquiries should be directed to Miss Margaret Stevenson, Executive Secretary, Department of Classroom Teachers, National Education Association, 1201 Sixteenth Street, N.W., Washington 6, D.C., who will be the director of the conference.

BAND WORKSHOP-CLINIC. August 8–19. A special course designed to study the techniques and procedures of developing school bands will be taught by Dr. Clarence Sawhill, famed Director of Bands at the University of California at Los Angeles. He will be assisted by William Cole, Director of Marching Band at the University of Washington, who will conduct a brass clinic; Jerome Glass Director of Bands at the Western Washington College of Education, who will conduct a woodwind clinic; and A. G. Tieman, Director of Band at the North Central High School, Spokane, Washington, who will conduct a percussion clinic. This will provide an excellent opportunity for band directors, music supervisors, and others to profit from the teaching of this distinguished foursome. It is
hoped that a public concert may be presented under Dr. Sawhill's baton at the end of the course. For the course description, see Music PS 559, in this catalogue.

WRITERS' CONFERENCE. During the week of July 15, the College of General Studies will offer a series of lectures for local creative writers and for members of the Aloha Writer's Cruise, a group which will come from the mainland. Further particulars about the Aloha Writer's Cruise may be obtained from Hal E. Rogers, 404 N. 20th Street, San Jose, California. Local inquiries about the conference program may be directed to Dr. Jeffrey A. Fleece, of the College of General Studies.

HAWAII AND ITS PEOPLE. This 5-credit course (Sociology S 620), which drew an enrollment of nearly 250 students (mainly teachers) in the 1959 session, deals with various phases of Hawaiian history, economics, geography, government, religion, social institutions, etc. Guest lecturers will be invited to address the class. Field trips to the Bishop Museum, temples and shrines, Chinatown, a Japanese movie, sugar and pineapple plantations, etc., help to give the class a first-hand view of various aspects of the multiracial, cosmopolitan community constituting the more than half-million people of Hawaii.

PRACTICAL ASTRONOMY. As we move inexorably into outer space with man-made satellites and other excursions into the heavens, it becomes increasingly more important to the general layman to expand his knowledge about this new frontier. A course in practical astronomy (Science S 201) was introduced in the 1958 summer session and drew such a heavy enrollment that it was offered again in the 1959 session, and will be offered again in 1960.

VOLCANOES. School teachers and laymen as well as undergraduates will be interested in the course on Hawaiian geology and volcanoes offered by the eminent volcanologist Dr. Gordon A. Macdonald at the Hilo Center. This is a nontechnical survey of the geologic history of the Hawaiian Islands, with special attention to the role of volcanoes. The course includes field trips to the Kilauea volcano region and to the Hamakua coastal area.

Still spouting lava in late December, Kilauea Iki volcano which started erupting in November, will be the site of field trips to be taken by classes in "Geology and Volcanoes of the Hawaiian Islands." This nontechnical survey course will be taught by Dr. Gordon A. Macdonald on the Hilo Campus.
EXTRACURRICULAR ACTIVITIES

UNIVERSITY PROGRAM. An extensive program of educational and recreational extracurricular events is sponsored by the University in conjunction with the summer session. The program includes evening public lectures by some of the visiting professors and the annual summer play. Other popular features of the program have been guided tours of interesting spots in the cosmopolitan city of Honolulu, and of Oriental temples and shrines, the Bishop Museum, the great naval base at Pearl Harbor, a sugar plantation and its mill, and a pineapple field and cannery.

Perennial favorites also have been craft sessions in lauhala weaving, flower arrangement, and the making of coconut hats, zabuton cushions, leis, and seed jewelry; sliding down grassy mountain slopes on bundles of ti leaves; glass-bottom boat rides over the Coral Gardens of Kaneohe Bay; catamaran rides off the beach at Waikiki; evening programs of Hawaiian legends and dances; an International Night program of the costumes, dances, and music of old Hawaii, China, Japan, Korea, and the Philippines; and two social dances, an Aloha Dance early in the session and a Pau Hana (Work Finished) Dance at the end of the session. Coffee Hours also have been sponsored, as a welcome "break" between classes. Details of the summer program for 1960 will be printed in Summer Salute, a special publication distributed at the beginning of the summer session.

ACTIVITY-AND-HEALTH FEE. A fee of $2.00 is charged all students registered in the six-week summer session or the first five-week term.

A. Summer Session Activity Cards entitle students to attend or participate in the various extracurricular events sponsored by the University, as described in the foregoing section. For certain trips an additional fee is charged to help defray the cost of transportation and lunches. Activity Cards may be purchased, upon approval of the Director of Student Activities, by summer session faculty members and by spouses or children (over 18 years of age) of these faculty members or of summer session students.

B. The Student Health Service is available at the campus dispensary where two graduate nurses and a half-time physician will be on duty to help students with medical and/or health problems. Services will be available from 7:45 a.m. to 4:30 p.m. daily Monday through Friday. Physical examinations which are required for participation in physical health classes are provided by the Health Service at no additional cost to the student. The Health Service also provides medical care for minor illnesses and accidents, first-aid care for emergency cases, other examinations as indicated, and any health counselling that is needed or desired. The Student Health Service is an outpatient clinic service only. There are no provisions for hospitalization or bed care. Any student who needs medical attention beyond that which the University can reasonably give should make his own arrangements with a private physician.

HEMENWAY HALL. Hemenway Hall, the college union building, is available for use each morning, Monday through Friday. Its services include daily Carnegie Concerts, current periodicals and local newspapers, table games and ping pong. Lounges and meeting rooms, a barbershop, and the University cafeteria are also located in this building. A snack bar is available in an adjoining building.

SUMMER PLAY. The University Summer Theatre plans to present, during the last week of the session, a production of the modern comedy, Right You Are!,
the Nobel Prize playwright Luigi Pirandello. The play is typical of Pirandello at his best, combining theatricalism and philosophy; the comedy centers around the difficulty, if not the impossibility, of arriving at the truth about an individual personality. The work is a rich mixture of philosophical discussion, melodrama, and broad satirical comedy.

Admission to the performances will be free to persons with Summer Session Activity Cards; these cards need only to be presented at the Farrington Hall box office when it opens for sales to receive a reserved seat ticket. Tryouts both for roles in the play and for backstage work will be held during the first week of the session and will be open to all interested students, although those enrolled in Drama and Theatre courses (Introduction to Drama and Theatre, Theatre Practice, or Acting) will be given first consideration.

OF INTEREST TO VISITORS. Honolulu is a cosmopolitan metropolis of some 300,000 people representing nearly all parts of the world. The numerous shops offering exotic wares from everywhere, the quaint atmosphere of Chinatown, the lovely residential districts, and the beach areas with their sand, surfboards, and catamarans are always of special interest to visitors. In Honolulu are the famed Bernice P. Bishop Museum, the Honolulu Academy of Arts, the Queen Emma Museum, and the only erstwhile royal palace on American soil, Iolani Palace. There are various Buddhist, Shinto, Confucian, and Taoist temples and shrines that are favorites with picture-taking visitors.

There is a wide variety of eating places including famous restaurants featuring Hawaiian, Oriental, Latin American, and European cuisines. There are many movie theatres, including drive-ins, three television and ten radio stations, free public concerts by the Royal Hawaiian Band, open air exhibits of their paintings by local artists, botanical gardens and arboretums, the extensive Honolulu Zoo, the Aquarium at Waikiki Beach operated by the University, and other attractions to suit diverse tastes.

HGUSING INFORMATION

Admission to the University is made without reference to the availability of housing. The student contemplating coming to the University of Hawaii should understand the housing problem. The University of Hawaii is primarily a non-resident campus.

1. Over 95 per cent of its students commute from home daily. It is thus like a "city college" type of institution.
2. The University is able to house on campus only a small number of students, 80 men and 162 women. See details below.
3. It is in a crowded and growing metropolis with much competition for housing from service personnel and their dependents, tourists, and local residents, as well as students. This is especially acute during the summer months.
4. It does not have the large rooming or boarding houses or apartments around it that are found in many university communities. Rooms available to students are more often singles or doubles, scattered throughout Honolulu; only a few are within walking distance of the campus. These rooms are neither inspected nor supervised by the University. Because of rapid turnover in a tight housing market we are unable to send the names of landlords through the mail.
This combination of circumstances make it impossible for many students to arrange for housing accommodations before arriving in Honolulu.

**CAMPUS HOUSING.** To be eligible for any University of Hawaii residence hall, a student must be registered for at least three hours of credit. Courses audited do not meet this requirement.

**Facilities and costs:**
- Frew Hall for women—capacity 144 in double rooms. Undergraduate and graduate. $70.00 per occupant for the session.
- Hale Laulima for women—14 single, 2 double rooms. Reserved for graduate women over 40 years of age. Single $90.00. Double $70.00 per occupant for the session.
- John A. Johnson Hall for men—capacity 80 in double rooms. Undergraduate and graduate. $70.00 per occupant for the session.

Applications should be addressed to the Director of Student Residences, 126 Bachman Hall, University of Hawaii, Honolulu 14, Hawaii.

None of the residence halls provides food service of any type. See information on “Meals” below.

There are no facilities on campus for married students.

**OFF-CAMPUS HOUSING.** The University maintains an information file on rooming houses, rooms in private homes and occasional apartments. The Office of Off-Campus Housing gives all possible assistance in locating suitable accommodations after the student arrives. Negotiations with off-campus landlords must be handled directly by the student. But students arriving in Honolulu without housing reservations are invited to come to the Office of Off-Campus Housing, in Bachman Hall, for general information and current listings of available accommodations.

Women Students: The majority of landlords prefer to rent to men students, feeling that fewer responsibilities are involved. Most women students, 18 to 35, have had to turn to apartments listed in the want-ads of local papers. For women students over 35, there are some listings of rooms in private homes and apartments to share with others; rates in such apartments are usually $65.00 per person per month and up.

Men Students: The YMCA operates a dormitory for men adjacent to the University campus. For information, write to the Director, Charles Atherton House, 1810 University Avenue, Honolulu 14, Hawaii.

The tight housing situation which prevails during the school year is aggravated during the summer by the fact that summer students are not interested in the six-month leases required by many landlords. Also, very few of the nonluxury apartments have silver, linen, and china. Therefore, students who want apartment-type accommodations should be prepared to pay a minimum of $20.00 per person per week, in groups of at least two, usually three or four. Rooms in private homes range between $35.00 and $50.00 per person per month. There are occasional listings for less, but not enough for students to count on.

The foregoing does not apply to the Waikiki area where hotel rates prevail; the minimum daily rates are $5.00 each in a double; $6.00 in a single. Actually, most rooms are at least $6.00 to $7.50 per person in a double.
Inquiries concerning hotels should be directed to the Hawaii Hotel Association, 2051 Kalakaua Avenue, Honolulu, Hawaii. Their service is informational only and includes such items as type of accommodation, cost, location, etc.

MEALS. The University cafeteria serves breakfast, lunch, and dinner Monday through Saturday, not including holidays. The average cost is $2.80 per day. Students take meals on Sundays and holidays at restaurants in the vicinity of the University or in Waikiki or downtown Honolulu.

ADDITIONAL INFORMATION

TRANSPORTATION. Air service on regular schedules between continental United States and Hawaii is provided by United Air Lines, Pan-American World Airways, and Northwest Air Lines, and on nonscheduled flights by Transocean Air Lines. Canada and Hawaii are linked by Canadian Pacific Air Lines and Qantas Airways. Steamship service is provided by Matson Navigation Company and the American President Lines, among others.

The University is located on a Honolulu Rapid Transit bus line that can take one to the center of town. There are connecting bus lines to the Waikiki Beach area. Fares are two tickets for 30¢, or 20¢ cash. During the period of the summer session, special shuttle bus service between the University and the Waikiki district is available at certain hours.

The major outer islands, Hawaii, Maui, and Kauai, are easily reached by Aloha Airlines and Hawaiian Airlines which have many daily flights.

DRIVERS' LICENSES. Mainland visitors with valid drivers' licenses are permitted to drive in Hawaii for 90 days following arrival, after which they must obtain Hawaiian licenses. However, if the driver is under 20 years of age, he or she must file a Parental Consent form with the Honolulu Police Department. This form may be obtained at police headquarters in Honolulu. A duly notarized statement signed by the driver's parents may be submitted for consideration by the Honolulu Police Department in lieu of this form. A driver under 20 years of age is otherwise liable to arrest.

New students bringing cars to the campus should obtain a copy of the University's rules on driving and parking.

PART-TIME EMPLOYMENT OPPORTUNITIES. Persons planning to attend the summer session are advised that there are very few opportunities for part-time employment during the summer period. Nonresident summer students are accordingly advised to have funds for all expenses before coming.

CLASSROOM ATTIRE. One of the pleasant features of summer sessions in Hawaii is that professors and students are generally attired somewhat more informally than during the fall and spring semesters, and colorful "Aloha shirts" and Hawaiian dresses make the campus one of the most picturesque to be seen anywhere. Students are reminded, however, that the canons of good taste exclude abbreviated shorts, swimming suits, and the like from normal classroom wear.

HILO CENTER SUMMER SESSION. A few summer courses are offered at the University of Hawaii Hilo Center, located in the town of Hilo, on the island of Hawaii, some 200 miles from Honolulu. The courses are intended primarily for residents of the island of Hawaii.
Courses Offered

Courses numbered 100 to 199 are intended primarily for freshmen and sophomores. Those numbered 200 to 599 are intended primarily for juniors and seniors, but are open to graduate students. Courses numbered from 400 to 599 carry graduate credit. Courses numbered 600 to 799 are primarily for graduate students. The number of semester credit hours carried by each course is listed in parentheses immediately after the title of the course.

During the regular six-week session most classes will be held according to the following schedule:

<table>
<thead>
<tr>
<th>50-MINUTE CLASSES</th>
<th>75-MINUTE CLASSES</th>
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<tbody>
<tr>
<td>7:45– 8:35</td>
<td>7:20– 8:35</td>
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<tr>
<td>9:10–10:00</td>
<td>8:45–10:00</td>
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<td>10:35–11:25</td>
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<tr>
<td>12:00–12:50</td>
<td>11:35–12:50</td>
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</tbody>
</table>

Time signals will be sounded for morning classes only at the closing times: 8:35, 10:00, 11:25 a.m. and 12:50 p.m.

This schedule provides a minimum interval of 35 minutes between classes for most students, thus giving opportunity for professor-student chats, coffee breaks, or quick trips to the library or the bookstore, and minimizing the need to rush to the next class which might be at some distance across the campus.

Air Science

S 230 SUMMER CAMP (2)   Staff

Anthropology

S 150 INTRODUCTION TO ANTHROPOLOGY (3)   Mason
Man's biological evolution; archeological history from the Stone to the Iron Age, patterned lifeways of tribal and folk societies throughout the world.
Daily 10:10-11:25

S 400 PEOPLES OF THE SOUTH SEAS (2)   Mason
Survey of racial origins, languages, and cultural institutions of aboriginal Australia, Melanesia, Micronesia, and Polynesia.
Daily 9:10-10:00

S 415 SOUTH ASIAN PEOPLES (2)   Spencer
Growth and character of high civilizations in India, Burma, Siam, and Indo-China and their relations with folk and tribal societies in the area.
Daily 12:00-12:50
Mohammed and the founding of Islam growth and spread of Islamic culture as inter-
mediary between ancient oriental civilizations and medieval Europe. Traditional
Muslim society: family structure, individual life cycle, legal and political organization,
theology. The contemporary Middle East: community studies from selected countries,
illustrating social and cultural change. 
Daily 10:35-11:25

Art

S 103 ART FUNDAMENTALS (2)  
Kingrey
Background material and studio practice to stimulate understanding of the Arts. 
Lectures, museum visits, and studio work. Course fee $1.00.
Daily 11:00-12:50

S 105 STUDIO IN VISUAL ARTS (2)  
(6 sections)
Staff
Elementary problems in various media as an introduction to the basic creative pro-
cesses in the visual arts. Basic materials furnished. Course fee $7.50.
1. Draw. & Ptg.  Daily 8:10-10:00 (Carpenter)
2. Draw. & Ptg.  11:00-12:50 (Stasack)
3. Draw. & Watercolor 11:00-12:50 (Cox)
4. Printmaking  8:10-10:00 (Stasack)
5. Three Dimen.  11:00-12:50 (Ingleson)
6. Textile Design 8:10-10:00 (Jameikis)

S 131 VISUAL DESIGN (2)  
Ingleson
Elements and principles of visual organization. This course or its equivalent is pre-
requisite to all advanced courses. Course fee $1.00.
Daily 8:10-10:00

S 132 VISUAL DESIGN (2)  
Kingrey
Elements and principles of visual organization. This course or its equivalent is pre-
requisite to all advanced courses. Course fee $1.00.
Daily 8:10-10:00

S 136 WEAVER A (2)  
Jameikis
Creative processes of weaving. Warping and threading of simple hand looms and
multiple harness looms. Course fee $7.50. (Students who have had this course may
enroll for Art S 137 Weaving B (2) upon approval by the instructor. Course fee
$7.50).
Daily 11:00-12:50

S 141 CERAMICS (2)  
(3 sections)
McVay, Enomoto
Methods and principles of creating pottery by hand. Course fee $10.00.
1. Daily 8:10-10:00 (McVay)
2. 11:00-12:50 (McVay)
3. 1:30- 3:20 (Enomoto)

S 142 CERAMICS (2)  
Enomoto
Emphasis on wheel throwing and experimentation with form and decorative tech-
niques. Prerequisite: Art 141. Course fee $10.00.
Daily 11:00-12:50

S 278 ARTS OF THE PACIFIC (2)  
Cox
Stylistic and aesthetic characteristics of the arts of Oceania, with particular attention
paid to Hawaii. The primitive influences on modern art. Course fee $2.00.
Daily 7:45-8:35

S 279 TRADITIONAL ARTS OF THE PACIFIC RIM (2)
Carpenter
A survey of the traditional art styles in such areas bordering the Pacific Ocean as Indonesia, Australia, the Americas, and Asia. Course fee $2.00.
Daily 10:35-11:25

Asian Studies

S 410 SYMBOLISM IN CHINESE LITERATURE AND ART (2)
Chiang
An interpretative survey of symbolism in Chinese literature and art and their relation to Chinese thought and life from the beginnings to the present days. General topics: the origin and development of Chinese symbolism, symbolic meanings of nature's features and phenomena, of animals and birds, of flowers and trees, of fish and insects, etc. Illustrated by lantern slides when possible.
Daily 7:45-8:35

S 411 THE PRINCIPLE AND TECHNIQUE OF CHINESE CALLIGRAPHY (2)
Chiang
The abstract nature of Chinese calligraphy, the origin and development, its esthetic principle and its brush technique, as well as its relationship to other forms of Oriental Art, particularly painting. Students are required to practice using Chinese brush, ink, paper or silk, and will be led to study Chinese and Japanese free brush paintings of bamboos, trees, birds, and flowers.
Daily 10:35-11:25

S 610 ASIA (3)
Staff
An interdisciplinary study of Asian countries, with special attention to South, Southeast, and East Asia. Lectures on geography, anthropology, history, religion, philosophy, literature, art, music, economics, sociology, government. Intended primarily for secondary school teachers. For other details, see page 18.
Daily 8:45-10:00

S 611 ASIA (1)
Staff
Companion course to S 610. Six evening discussion sessions and six evening lectures. Field trips, Asian dinners, and additional sessions arranged. Prerequisite: membership in Summer Institute on Asian Studies. For other details, see page 18.
Monday 6:30-7:45 p.m. Discussion
8:00-9:00 p.m. Lecture

S 620 FIELD STUDIES; STUDY TOUR OF THE ORIENT (5)
Clopton
Lectures on campus and other programs, June 29-July 6; departure for Tokyo from Honolulu by jet plane, July 6; Japan, July 7-22; Taipei, July 22-26; Manila, July 26-28; Saigon, July 28-30; Angkor Wat, July 30-31; Bangkok, July 31-August 4; Singapore, August 4-7; Hong Kong, August 7-12 (with overnight boat trip to Macao); departure from Hong Kong, August 12, for Honolulu via Tokyo. Prerequisite: consent of instructor; preregistration. For other details, see page 18.

Bacteriology

S 130 MICROBES AND MAN (2)
Bushnell
A general introduction to the world of microbiology, presenting the different kinds of microorganisms and their manifold activities as they affect people and their possessions. Attention to the functions of germs in health and in disease, and the roles that microorganisms play in agriculture and industry, in the preparation of foods and beverages, and in the economy of the sea. Lectures supplemented with demonstrations and visual aids. Field trips to establishments and laboratories on Oahu which demon-
strate the activities of microorganisms and man's efforts to control them. Not open to students who have had Bacteriology 151. Prerequisite: a year of high school science or its equivalent.
Daily 10:35-11:25

S 131 MICROBIOLOGY WORKSHOP FOR BIOLOGY TEACHERS (1) Contois
An introduction to microbiological techniques and other methods useful in teaching. No previous training in bacteriology required; concurrent registration in Bacteriology S 130 recommended.
Tuesday and Thursday, 1:10-3:00 p.m.

Botany

S 154 GENERAL GENETICS (3) Kelm
Scientific basis of inheritance from viruses to man, including recent developments in the understanding of gene action and the nature of the gene. Application of genetics to improvement of plants and animals, and brief reference to genetics and human welfare. Prerequisite: one semester of biological science.
Daily 8:45-10:00

Business

S 150 ELEMENTARY ACCOUNTING (3) B. Lee
Fundamental principles of accounting for sole proprietorships, including use of journals and ledgers and preparation of statements. Three lectures and two laboratory periods. Prerequisite: sophomore standing in the department or consent of instructor.
First 5-week term: June 20-July 22.
M W F 8:00-10:00 Laboratory, T Th 8:00-10:20

S 151 ELEMENTARY ACCOUNTING (3) B. Lee
Continuation of Business S 150, including the accounting problems of partnerships and corporations. Three lectures and two laboratory periods. Prerequisite: Business 150. Second 5-week term: July 25-August 26.
M W F 8:00-10:00 Laboratory, T Th 8:00-10:20

S 300 BUSINESS STATISTICS (3) Congdon
Principles of statistical analysis, including averages, dispersion, sampling, index numbers, time series, correlation, and inference. Prerequisite: Economics 151.
Daily 10:10-11:25

S 400 INTERMEDIATE ACCOUNTING (3) Davidson
Financial statements: form, content, and related problems such as depreciation, depletion, valuation of assets, and the structure of corporations. Prerequisite: Business 151.
Daily 11:35-12:50

S 442 BUSINESS ORGANIZATION AND MANAGEMENT (3) Carlson
Case approach to organization, marketing, finance, and other management problems. Prerequisite: senior standing and Business 490 or consent of instructor.
Daily 10:10-11:25

S 480 PRINCIPLES OF MARKETING (3) Stellmacher
Study of consumption; general survey of the marketing structure, emphasizing marketing functions and channels, market analysis, and policies. Prerequisite: Economics 150-151.
Daily 11:35-12:50

S 483 RETAIL MERCHANDISING (2) Congdon
Retailing history, store organization and management, sales promotion, customer's
buying habits. Prerequisite: Economics 150-151 or consent of instructor.
Daily 12:00-12:50

S 490 CORPORATION FINANCE (2) Carlson
Analysis of instruments and methods of financing a corporation. Prerequisite: Business 151, Economics 240, or consent of instructor.
Daily 7:45-8:35

S 602 SEMINAR IN CURRENT PROBLEMS OF ACCOUNTING (2) Davidson
Discussion and analysis of selected accounting problems. Prerequisite: instructor’s approval.
Three weeks. Daily 8:00-10:00, June 21-July 12

Chinese

S 101 ELEMENTARY CHINESE (3) L. C. Winters
An intensive course equivalent to the first semester’s work in the academic year. Emphasis in conversation, grammar, and sentence construction. One hour of laboratory daily is required. Lab fee $1.00
First 5-week term: June 20-July 22.
Daily 8:10-10:00 Laboratory, daily 10:15-11:10, or 11:15-12:10, or 1:10-2:05

S 102 ELEMENTARY CHINESE (3) L. C. Winters
Continuation of S 101; the equivalent of the second semester’s work in the academic year. Students completing this course may take Intermediate Chinese. One hour of laboratory drill daily is required. Lab fee $1.00.
Second 5-week term: July 25-August 26.
Daily 8:10-10:00 Laboratory, daily 10:15-11:10, or 11:15-12:10, or 1:10-2:05

Drama

S 140 INTRODUCTION TO DRAMA AND THEATRE (3) Ernst
Representative plays from Arthur Miller’s Death of a Salesman to Aeschylus’ Agamemnon, studied as illustrative of changing forms in the theatre and dramatic literature over the centuries.
Daily 10:10-11:25

S 200 THEATRE PRACTICE (2) Langhans
Supervised work in the arts and crafts of the theatre, in conjunction with the summer production of the University Theatre. Staging, lighting, costumes, properties, and acting, of which the student will usually emphasize one. Intended for the general student as well as drama majors. May be repeated once.
Daily, hrs. arr.

S 420 ACTING (2) Ernst
Analysis and interpretative reading of dramatic prose and poetry; related principles of stage production; individual exercises and group rehearsals. Co-ordinated with summer production of the University Theatre.
Daily 12:00-12:50

Economics

S 140 INTRODUCTION TO ECONOMICS (3) F. H. Jackson
A descriptive analysis of basic economic institutions and a study of the elementary principles underlying consumption, production, exchange, and distribution. Not open
UNIVERSITY of HAWAI'I
CAMPUS MAP

January 1960
to majors in Economics and Business or to other students who have had an introductory course in Economics under a different title.
Daily 10:10-11:25

S 240 MONEY AND BANKING (3) Kendrick
Nature and history of money and of banking; characteristics of credit; monetary system of the United States; monetary standards; value of money; relation of money and credit to prices; banking system of the United States, including commercial banks, trust companies, savings banks, and related savings institutions.
Daily 8:45-10:00

S 290 LABOR PROBLEMS (3) Pendleton
A study of wages, hours, working conditions, employment, superannuation, substandard workers, and other important problems common to all labor. Special attention to an analysis of the fundamental factors affecting wage levels.
Daily 8:45-10:00

S 410 ECONOMIC PROBLEMS OF ASIA AND THE FAR EAST (2) Myers
Structure and development of economics of Asia and the Far East, with special reference to China, Japan, India, and Southeast Asia. Problems of agricultural and resource development, industrialization, trade, finance, and government planning in underdeveloped areas.
Daily 7:45-8:35

S 413 ECONOMIC DEVELOPMENT OF THE SOVIET UNION (2) Myers
A survey of economic development of Pre-Revolutionary Russia (1880’s) to the present, with special attention to the pattern of economic growth and structural change of the Russian economy since 1917 and to general problems of resource allocation and use under planned economy.
Daily 10:35-11:25

S 450 PUBLIC FINANCE (2) Kendrick
Government expenditures; taxes and other revenues; public debts; budgeting. Examination of institutions, economic effects, and fiscal policy.
Daily 10:35-11:25

S 460 INTERNATIONAL TRADE AND FINANCE (2)
Theory, foreign exchange rates, balance of payments adjustment; recent international commercial and financial policy. Prerequisite: Economics 240 or consent of instructor.
Daily 12:00-12:50

Education

The Ed.B. or equivalent is prerequisite to registration in any Education course numbered 600 or above, except by special permission of the department chairman.

S 304 AUDIO-VISUAL EDUCATION (3) Clemens, Garside
(3 sections)
Theory, preparation, and use on all school levels of sensory aids to learning. Lab fee $3.00.
Daily 7:45-8:35 (Clemens) Laboratory (1) MTh 8:45-10:00
9:10-10:00 (Garside) (2) TF 8:45-10:00
10:35-11:25 (Clemens) (3) MTh 11:35-12:50
(4) MW 1:45-3:00
(5) MTh 7:20-8:35
(6) MTh 10:10-11:25
(7) TTh 1:45-3:00

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S 309 TESTS AND MEASUREMENTS (3)  
(2 sections)  
Theory and techniques of evaluation in education; practice in the use of testing devices. Lab fee $8.00, including $7.00 for the National Teacher Examination. Pre­requisite: credit or concurrent registration in Education 230 or 222.  
Daily 7:45- 8:35  
10:35-11:25  
Laboratory (1) MTh 7:20- 8:35  
(2) TF 7:20- 8:35  
(3) MTh 8:45-10:00  
(4) TF 8:45-10:00  
(5) MTh 11:35-12:50  
(6) TTh 1:45- 3:00  
S 395 WORKSHOP IN AVIATION EDUCATION (5)  
A general education approach to aviation, American air power, the simple scientific principles of aviation, vocational opportunities, and the social-economic-political impact of the airplane upon a shrinking world; emphasis upon ways aviation can enrich general course offerings; consultation with leaders in aviation and education, preparation of curriculum materials at all grade levels, field trips, and beginning leadership experiences in aviation education. (Students are expected to enroll for this course only.) Course fee $15.00 to cover cost of supplies and equipment. June 27–July 29.  
Daily 8:30-3:30 Princess Ka‘ulani Hotel  
S 601 GUIDANCE IN THE SCHOOL (3)  
Services within the school guidance program with special emphasis on available materials and resources.  
Daily 8:45-10:00  
S 602 ELEMENTARY SCHOOL GUIDANCE (2)  
Principles, techniques, and organization of guidance services in the elementary school. Prerequisite: Education 221 and 309; consent of instructor.  
Daily 12:00-12:50  
S 606 HOME-SCHOOL RELATIONSHIPS (3)  
(2 sections)  
Analysis of parent-teacher relationships as they affect children’s learning. The com­plementary relationships of home and school.  
Daily 7:20- 8:35  
10:10-11:25  
S 607 CLINICAL PROCEDURES IN READING (3)  
Diagnosis and improvement of reading in elementary and secondary schools. Prere­quisite: course in teaching of reading; consent of instructor.  
Daily 12:00-12:50; add. hrs. arr.  
S 609 TESTS AND INVENTORIES IN GUIDANCE (2)  
Daily 10:35-11:25  
S 694 GUIDANCE PRACTICUM (3)  
Supervised experience in guidance activities in schools. Guidance majors only.  
Daily, hrs. arr.  
S 695 ADVANCED WORKSHOP IN AVIATION EDUCATION (5)  
Prerequisite: Credit in an aviation education workshop in an accredited university and demonstration of competence and interest in the field of aviation education; a professionally conducted academic seminar, including directed reading with study
oriented toward individual projects, designed to develop leadership in aviation education. The following areas will be stressed: curriculum development and materials, teaching methods and techniques, school and community aviation education leadership activities, and advanced research in aviation education and space travel. (Students are expected to enroll for this course only.) Course fee $15.00 to cover cost of supplies and equipment. June 27-July 29. Daily 8:30-3:30  Princess Kaiulani Hotel

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Fee</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>S 701</td>
<td>SEMINAR IN GUIDANCE (2)</td>
<td>Clark</td>
<td>An advanced course for trained and experienced school guidance personnel who qualify for professional certification.</td>
<td></td>
<td>Daily 7:45-8:35</td>
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<tr>
<td>S 707</td>
<td>RESEARCH DESIGN (2)</td>
<td>Sigel</td>
<td>Factors involved in research programs; team and coordinated research projects; determination of research needs; financing research; foundations, grants, subventions; channels of publication. Enrollment limited to University Faculty and others by invitation.</td>
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<td>Daily 2:00-3:30</td>
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<tr>
<td>S 708</td>
<td>EDUCATIONAL RESEARCH METHODS (3)</td>
<td>Sax</td>
<td>Research techniques and thesis development. Prerequisite: Education 309; consent of instructor. $4.00 fee for Graduate Record Examination.</td>
<td>$4.00</td>
<td>Daily 8:45-10:00</td>
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<tr>
<td>S 709</td>
<td>EDUCATIONAL EVALUATION (3)</td>
<td>Sigel</td>
<td>Educational objectives and evaluation methods; synthesis of data from objective and subjective sources. Prerequisite: Education 309; consent of instructor.</td>
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<td>Daily 11:35-12:50</td>
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**Preschool-Primary Education**

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<tr>
<th>Course Code</th>
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<th>Description</th>
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<tbody>
<tr>
<td>S 310</td>
<td>BASIC SKILLS, PRESCHOOL-PRIMARY (2)</td>
<td>Gillespie</td>
<td>Materials and procedures for teaching children’s literature, creative dramatics, and language arts. Prerequisite: Education 210-211.</td>
<td></td>
<td>Daily 9:10-10:00</td>
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<tr>
<td>S 311</td>
<td>BASIC SKILLS, PRESCHOOL-PRIMARY (second semester) (2)</td>
<td>Gillespie</td>
<td>Materials and procedures for teaching beginning reading and number concepts. Prerequisite: Education 220-221.</td>
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<td>Daily 10:35-11:25</td>
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**Elementary Education**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Description</th>
<th>Fee</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>S 222</td>
<td>PRINCIPLES OF ELEMENTARY EDUCATION (4)</td>
<td>Fitzsimmons</td>
<td>A survey of the principles of elementary education for teachers with less than professional certification. Credit applies toward certificate but not toward Ed.B.; may not be taken for credit by persons who have credit in Education 220-221.</td>
<td></td>
<td>Daily 10:35-12:15</td>
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<tr>
<td>S 225</td>
<td>CHILDREN’S LITERATURE (2)</td>
<td>D. V. Smith</td>
<td>Acquaintance with a wide range of children’s books; criteria for judging literature on the basis of children’s needs and interests. Prerequisite: Education 220.</td>
<td></td>
<td>Daily 12:00-12:50</td>
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</table>
S 320 LANGUAGE ARTS, ELEMENTARY (3)  B. Uehara
Developing concepts of the modern approach to the teaching of language arts—
reading, oral, and written expression. An exploration of materials designed for grades
one through six. Prerequisite: Education 220-221.
Daily 7:20-8:35

S 323 SCIENCE, ELEMENTARY (2)  A. Carr
(2 sections)
Science education in the elementary school; developing concepts and understanding in
grades 1-6. Prerequisite: Education 220.
Daily 9:10-10:00
12:00-12:50

S 326 CREATIVE ART, ELEMENTARY (2)  S. Yamamoto
(2 sections)
Individual and group projects to promote understanding of the creative use of art
materials, tools, ideas, and their sources. Work in paint, clay, wood, etc. Studio
fee $5.00. Prerequisite: Education 220-221.
Daily 7:45-10:00
(ATTP) Daily 1:30-3:45

S 620 TEACHING READING IN THE ELEMENTARY SCHOOL (2)  B. Uehara
Various techniques and materials for teaching reading and for improving reading
skills in the elementary school.
Daily 9:10-10:00

Secondary Education

S 230 SECONDARY EDUCATION (5)  Cross, Ihara
(2 sections)
Basic course dealing with the major problems of secondary education. Prerequisite:
Psychology 152. (Students will not enroll for any other courses before 1 p.m.)
Daily 7:45-10:00 (Cross)
10:10-12:25 (Ihara)

S 236 SCHOOL JOURNALISM (2)  Scott
Major problems of assembly and preparation of material for student newspapers,
yearbooks, and magazines; laboratory in production of student publications by avail­
able typographical processes. Course fee $2.00. June 20–July 8.
Daily 1:30-3:30

S 239 EXTRACURRICULAR SPEECH ACTIVITIES (3)  Lefforge
Lectures and workshop on methods of directing high school groups in discussion,
debate, and interpretative reading. Forthcoming debate and discussion topics to be
used as bases for the study of topic analysis, nature of argumentation and debate,
and discussion procedure. Various interpretative activities will also be studied.
Daily 11:35-12:50

S 241 VOCATIONAL GUIDANCE (2)  J. Feirer
Principles and problems of guidance with special reference to vocational education;
data relating to requirements and opportunities for employment in various trades.
Daily 7:45-8:35

S 242 INSTRUCTIONAL MATERIALS, T&I (2)  J. Feirer
Advanced training in the techniques of development and use of instructional material
in shop and related instruction classes; selection and use of instructional aids,
instruction sheets, charts, and drawings.
Daily 9:10-10:00
S 331  TEACHING OF READING IN INTERMEDIATE AND HIGH SCHOOL (2)  R. Aim
Techniques and materials for teaching reading and improving reading skills in the intermediate and high school.
Daily 10:35-11:25

S 333  SCIENCE, SECONDARY (3)  Campbell
Purposes and procedures; development of scientific attitude; review of the major generalizations of the biological and physical sciences. Prerequisite: Education 230.
Daily 10:10-11:25

S 334  MATHEMATICS, SECONDARY (3)  Campbell
Purposes and procedures; development of basic mathematical concepts. Prerequisite: Education 230.
Daily: 8:45-10:00

S 335  FOREIGN LANGUAGES, SECONDARY (3)  Aspinwall
Techniques and materials for teaching foreign language; aims, motivation, tests; infusion of cultures; use of instructional aids. Prerequisite: Education 230.
Daily 11:35-12:50

History and Philosophy of Education

S 551  EDUCATIONAL IMPLICATIONS OF SEMANTIC THEORY (2)  Hayakawa
General semantics, communication theory, metalinguistics, and other current theories of language, and their implications for the re-examination of educational goals and practices; applications to educational philosophy, teaching methods, and curriculum building. Prerequisite: Speech 440 or equivalent.
Daily 10:35-11:25

S 650  HISTORY OF EDUCATION (3)  M. Greene, Stueber
(3 sections)
History of educational thought and practice as a basis for the study of modern school problems.
Daily 7:20-8:35 (Greene)
8:45-10:00 (Stueber)
10:10-11:25 (Stueber)

S 655  PHILOSOPHY OF EDUCATION (3)  Amioka, Axtelle, M. Greene
(5 sections)
Philosophy and science in education; social, psychological, and ethical considerations essential to a philosophy of education.
Daily 7:20-8:35 (Amioka)
8:45-10:00 (Axtelle)
10:10-11:25 (Amioka)
10:10-11:25 (M. Greene)
11:35-12:50 (Axtelle)

S 751  HISTORY OF AMERICAN EDUCATION (3)  Anderson
History of educational thought and practice in America, with major emphasis on the 19th and 20th centuries. Prerequisite: Education 650.
Daily 10:10-11:25

S 753  COMPARATIVE EDUCATION, EUROPE AND AMERICA (2)  Havighurst
A comparison of the ways in which contemporary Western societies undertake to meet their educational problems.
Daily 9:10-10:00
S 754  COMPARATIVE EDUCATION, THE ORIENT  (2)  Anderson
A study of the educational problems, practices, and institutions in the countries of Asia.
Daily 7:45-8:35

S 758  SEMINAR IN PROBLEMS OF EDUCATION  (2)  Sax
Study and discussion of significant topics and problems. Required of Ed.M. candidates. Prerequisite: Education 708.
Daily 12:00-12:50

S 759  CURRENT ISSUES IN EDUCATION  (2)  Beyers, Staff
A lecture series presented by a staff of visiting and resident faculty. Current issues in educational administration, supervision, curriculum, philosophy, methodology, research.
MTWTh 10:10-11:35

Curriculum

S 561  HAWAII IN THE SCHOOL CURRICULUM  (2)  Stevenson, Staff
Lectures by guest speakers, discussions, field trips, and demonstrations designed to enable classroom teachers to make effective use of information and materials about Hawaii. July 5-15. Prerequisite: consent of instructor.
Daily 8:30-3:30 Kamehameha Schools

S 562  CURRICULUM DEVELOPMENT FOR INTERNATIONAL UNDERSTANDING  (2)  Crossley, Staff
Lectures by guest speakers, clinic sessions, and seminars designed to enable elementary school principals to develop teaching contest, methods, and tools for introducing into the elementary curriculum material dealing with the nations of Asia. Enrollment limited to participants in the Summer Conference of Elementary School Principals. July 5-15. Prerequisite: consent of instructor.
Daily 8:30-3:30 Hawaiian Village Hotel

S 661  THE MODERN LANGUAGE ARTS PROGRAM  (3)  D. V. Smith
Survey of research; critical examination of educational procedures in teaching the language arts. Prerequisite: basic course in teaching language arts.
Daily 8:45-10:00

S 662  ELEMENTARY SCHOOL CURRICULUM  (3)  Porter
Principles and techniques of curriculum improvement at the elementary school level. Resources and teaching units. Prerequisite: teaching experience.
Daily 10:10-11:25

S 663  SECONDARY SCHOOL CURRICULUM  (3)  Stiles
Principles and techniques of curriculum improvement at the secondary school level. Prerequisite: teaching experience.
Daily 10:10-11:25

S 664  EXTRACLASS ACTIVITIES IN SECONDARY SCHOOLS  (2)  Meyer
Planning and supervising student government, dramatics, athletics, school journalism, and other activities.
Daily 7:45-8:35

S 668  EDUCATION OF SLOW LEARNERS  (2)  McIntosh
Analysis of the special problems of the slow learners and the development of techniques and programs for serving them. Prerequisite: Education 662 or 663; consent of instructor.
Daily 7:45-8:35
S 669 EDUCATION OF RAPID LEARNERS (2) Haighurth
Analysis of the special problems of the rapid learners and the development of techniques and programs for serving them. Prerequisite: Education 662 or 663; consent of instructor.
Daily 12:00-12:50

S 760 SEMINAR IN CURRICULUM (3) Stiles
Advanced study in the development and improvement of the curriculum of the elementary and secondary schools. Prerequisite: Education 662 or 663; consent of instructor.
Daily 7:20-8:35

Supervision and Administration

S 670 SUPERVISION OF INSTRUCTION (2) Melbo
Principles of supervision and the development of supervisory programs in the school. Prerequisite: Education 662 or 663.
Daily 9:10-10:00

S 679 SUPERVISION OF STUDENT TEACHING (2) Porter, McIntosh
(2 sections)
Principles and methods; role of the supervisor; human relations in supervision of student teaching. Prerequisite: teaching experience; consent of instructor.
Daily 7:45-8:35 (elementary)
9:10-10:00 (secondary)

S 680 PUBLIC SCHOOL ORGANIZATION (2) Nelson, Meyer
(3 sections)
The function of the teacher in school administration; state and territorial organization of public education; Hawaii school law and D.P.I. regulations.
Daily 7:45-8:35 (Nelson)
12:00-12:50 (Nelson)
10:35-11:25 (Meyer)

S 682 ADMINISTRATION OF THE ELEMENTARY SCHOOL (2) L. D. Jackson
Curricula and programs; reports to parents, pupils, staff; plant; community relations; problems of the small school. Prerequisite: Education 680; teaching experience.
Daily 9:10-10:00

S 683 ADMINISTRATION OF THE SECONDARY SCHOOL (2) Melbo
Organization and administration; curriculum schedules; personnel; plant; public relations. Prerequisite: Education 680; teaching experience.
Daily 12:00-12:50

S 685 ADMINISTRATION OF AUDIO-VISUAL PROGRAMS (2) Garalde
Planning audio-visual programs for the school; purchase, maintenance, and utilization of equipment and materials; supervision aimed at optimum educational use of audio-visual materials and procedures. Prerequisite: Education 304 and teaching experience.
Daily 12:00-12:50

S 781 LEGAL AND BUSINESS ASPECTS OF SCHOOL ADMINISTRATION (2) L. D. Jackson
Advanced course in legal and business controls and practices in the public school system. Prerequisite: Education 682 or 683; consent of instructor.
Daily 10:35-11:25
Engineering

SCE 101 ENGINEERING DRAWING (2)  Corba
Basic fundamentals, freehand orthographic and pictorial sketching, instrument draw­
ing and principles related to the graphic language of engineering. Lab fee $2.00.
Daily 8:00-11:00

SCE 102 DESCRIPTIVE GEOMETRY (2)  Corba
Graphical solution of problems involving points, lines, and surfaces, and their applica­
tion to engineering. Prerequisite: CE 101. Lab fee $2.00.
Daily 1:00-4:00

SCE 111 SURVEYING (4)
Use of tape, level, and transit; horizontal and vertical control surveys; computations.
Prerequisite: Mathematics 102; CE 101. Lab fee $3.00.
Daily 8:00-9:00  Laboratory, daily 9:00-12:00

SCE 170 MECHANICS (STATICS) (3)
Engineering applications, analysis of static equilibrium, free-body diagrams. Pre­
requisite: Physics 180.
Daily 8:05-9:20

Recently completed Keller Hall features a stained-glass window designed by Univer­sity art professor Murray Turnbull. Unusual lighting is provided by the window which extends from the top of the main doorway to the fourth floor ceiling. Engineering students utilize the latest laboratory and classroom equipment here.
## English

### S 101 COMPOSITION (3)
- **Embler, Mortensen, Rosenberg**
  
- **4 sections**
  
- Principles and practice of composition—expository forms. First semester. For all students qualifying in university entrance examinations.
  
- **Daily**
  
  1. 7:20-8:35 (Mortensen)
  2. 8:45-10:00 (Rosenberg)
  3. 10:10-11:25 (Embler)
  4. 11:35-12:50

### S 102 COMPOSITION (3)
- **Chaldecott, Frierson, Huntsberry**
  
- **4 sections**
  
- Principles and practice of composition—expository forms including a research project. Second semester. Prerequisite: English 101.
  
- **Daily**
  
  1. 7:20-8:35 (Huntsberry)
  2. 8:45-10:00 (Frierson)
  3. 10:10-11:25 (Chaldecott)
  4. 11:35-12:50

### S 150 MAJOR WORKS OF BRITISH LITERATURE (3)
- **Holier**
  
- From the middle ages to 1800; an introductory course for sophomores.
  
- **Daily** 8:45-10:00

### S 151 MAJOR WORKS OF BRITISH AND AMERICAN LITERATURE (3)
- **Lewis**
  
- From 1800 to the present; an introductory course for sophomores.
  
- **Daily** 10:10-11:25

### S 152 WORLD LITERATURE: CLASSIC TIMES TO THE RENAISSANCE (3)
- **L. E. Winters**
  
- Major works of classical, Oriental, European, and English literature.
  
- **Daily** 10:10-11:25

### S 155 TYPES OF EUROPEAN AND AMERICAN LITERATURE (3)
- **Scott**
  
- Poetry, drama, essays, and prose fiction from the sixteenth century to the present. A required course for sophomores in Agriculture, Business Administration, Engineering, and Nursing.
  
- **Daily** 7:20-8:35

### S 210 REPORT WRITING (3)
- **Stempel**
  
- Technical exposition: reports and other types of professional writing. Prerequisite: junior or senior standing.
  
- **Daily** 7:20-8:35

### S 213 NARRATIVE WRITING (2)
- **Huntsberry**
  
- Analysis and writing of narrative, including the short story.
  
- **Daily** 9:10-10:00

### S 231 INTRODUCTION TO POETRY (2)
- **L. E. Winters**
  
- Analysis of selected English and American poems of the past and present, with emphasis on problems of communication and appreciation; a course in practical criticism.
  
- **Daily** 9:10-10:00

### S 445 THE SHORT STORY (2)
- **Day**
  
- A reading survey covering the development of the short story in English from Poe to the present.
  
- **Daily** 10:35-11:25
THE ENGLISH NOVEL: 1832-1900 (2)  
Principal novels and novelists, including Dickens, Thackeray, George Eliot, Meredith, Hardy, and Conrad.  
Daily 7:45-8:35

SHAKESPEARE: HISTORIES AND COMEDIES (3)  
Detailed study of Richard II, Henry IV, and Henry V; The Taming of the Shrew, The Merchant of Venice, Twelfth Night, and The Tempest.  
Daily 11:35-12:50

VICTORIAN LITERATURE (2)  
Emphasis on the poetic works of Tennyson, Browning, and Arnold, with attention to critical ideas of the period.  
Daily 10:35-11:25

LITERATURE OF MODERN INDIA IN ENGLISH (2)  
Readings in 19th and 20th century literature of India, including modern English translations of the older epics and religious writings. Special attention to Tagore and Aurobindo and their circles.  
Daily 12:00-12:50

AMERICAN LITERATURE: BEGINNINGS TO THE CIVIL WAR (3)  
Readings in the major writers and movements in the colonial revolutionary, first national, and romantic periods, including such writers as Franklin, Irving, Cooper, Bryant, Emerson, Thoreau, Hawthorne, Melville, and Poe.  
Daily 10:10-11:25

LITERATURE OF THE PACIFIC (3)  
The literature of the Pacific Islands and Australia: narratives of voyagers and travelers, translations of native folk literature, and short stories and novels by such writers as Melville, Stevenson, Jack London, Becke, and Nordhoff and Hall.  
Daily 8:45-10:00

AMERICAN POETRY SINCE 1920 (3)  
A survey of American poetry and poetics from the early work of T. S. Eliot to the present, with special reference to Eliot, Pound, Frost, Jeffers, MacLeish, and Stevens.  
Daily 8:45-10:00

SEMINAR IN AMERICAN LITERATURE: MELVILLE (2)  
A study of the major works, with close attention to significant criticism of Melville since 1920.  
M W F 11:35-12:50

French

ELEMENTARY FRENCH (3)  
An intensive course in reading, writing, and conversation, with additional oral practice in the language laboratory; the equivalent of a full semester's work in the academic year. One hour of lab drill daily is required. Lab fee $1.00.  
First 5-week term: June 20-July 22.  
Daily 11:00-12:50 Laboratory, daily 8:10-9:00, or 9:10-10:00, or 10:10-11:00

ELEMENTARY FRENCH (3)  
Continuation of S 101; the equivalent of the second semester's work in the academic year. Students completing this course with a passing grade may take Intermediate French. One hour of lab drill daily is required. Lab fee $1.00.  
Second 5-week term: July 25-August 26.  
Daily 11:00-12:50 Laboratory, daily 8:10-9:00, or 9:10-10:00, or 10:10-11:00
5 151 INTERMEDIATE FRENCH (3)  E. A. Jackson  
Reading, conversation, dictation, grammar review. Lab drill; the equivalent of a full semester's work in the academic year. Prerequisite: one year of college or two years of high school French. One hour of lab drill daily is required. Lab fee $1.00.  
First 5-week term: June 20-July 22.  
Daily 8:10-10:00 Laboratory, daily 10:15-11:10, or 11:15-12:10, or 12:15-1:10  

5 152 INTERMEDIATE FRENCH (3)  Burkett  
A continuation of S 151; the equivalent of the second semester's work in the academic year. Students passing this course will have fulfilled the college language requirement. Prerequisite: French 151, or with special consent three years high school French. One hour of lab drill daily is required. Lab fee $1.00.  
Second 5-week term: July 25-August 26.  
Daily 8:10-10:00 Laboratory, daily 10:15-11:10, or 11:15-12:10, or 12:15-1:10  

Geography  

5 151 ECONOMIC GEOGRAPHY (3)  Manchester  
Analysis of the world's major agricultural, industrial, and commercial regions and their interconnecting trade routes. Course fee $1.00.  
Daily 10:10-11:25  

5 541 GEOGRAPHY OF ASIA (2)  Manchester  
Regional geography of Asia. Geographic aspects of the historic and economic development of the continent with emphasis on current problems. Course fee $1.00.  
Daily 12:00-12:50  

5 578 GEOGRAPHY OF HAWAII (2)  Pilihana  
A study of the physical, economic, and cultural geography of the Hawaiian Islands with emphasis on current land utilization and settlement patterns and their historical development from the pre-European era to the present. Students to purchase their own maps for classwork. Field trip (airplane) fee $5.00.  
Daily 9:10-10:00  

Geology  

5 150 PHYSICAL GEOLOGY (3)  Moberly  
Geologic work of oceans, glaciers, streams, winds; rocks and minerals; volcanoes, earthquakes, mountain building. Geology S 152 must be taken concurrently.  
Daily 8:45-10:00  

5 152 LABORATORY GEOLOGY (1)  Moberly  
Identification of common minerals and rocks. Reading of topographic and geologic maps. Prerequisite: concurrent registration in Geology S 150. Lab fee $1.00.  
M W 1:10-4:00  

German  

5 101 ELEMENTARY GERMAN (3)  Moore  
An intensive course in reading, grammar, conversation, and writing; additional oral drill in laboratory; equivalent of a full semester's work in the academic year. Lab fee $1.00.  
First 5-week term: June 20-July 22.  
Daily 11:00-12:50 Laboratory, daily 8:10-9:00, or 9:10-10:00, or 10:10-11:00  

5 102 ELEMENTARY GERMAN (3)  Moore  
Continuation of S 101; the equivalent of the second semester's work in the academic year. Students completing this course with a passing grade may take German 151 or 153, or both. Lab fee $1.00.
Second 5-week term: July 25-August 26.
Daily 11:00-12:50 Laboratory, daily 8:10-9:00, or 9:10-10:00, or 10:10-11:00

S 153 INTERMEDIATE: SCIENTIFIC GERMAN (3) Ramler
An intensive course in accurate reading of scientific subjects over a wide range; emphasis on sentence structure and vocabulary building; the equivalent of a full semester's work in the academic year. Prerequisite: one year of college German.
First 5-week term: June 20-July 22.
Daily 8:10-10:00

S 154 INTERMEDIATE: SCIENTIFIC GERMAN (3) Ramler
Continuation of S 153; the equivalent of the second semester's work in the academic year. Students passing this course will have completed the college language requirement. Prerequisite: German 153.
Second 5-week term: July 25-August 26.
Daily 8:10-10:00

Government

S 110 INTRODUCTION TO GOVERNMENT (3) Thrombley
Role of government in modern society. Types and practices of government; processes of political change; citizen participation.
Daily 8:45-10:00

S 400 POLITICAL THEORY: MAJOR CONCEPTS (3) Horwitz
Analysis of some of the major concepts of political theory; their statement by the major political philosophers.
Daily 10:10-11:25

S 402 DEMOCRACY AND COMMUNISM (2) Horwitz
Survey of the ideological development of the rivals for man's political allegiance.
Daily 12:00-12:50

S 421 MUNICIPAL GOVERNMENT AND ADMINISTRATION (2) Thrombley
The city as a political subdivision and as a municipal corporation; powers and liabilities; forms of government; the metropolitan problem; related matters.
Daily 10:35-11:25

S 440 COMPARATIVE POLITICS: POLITICAL PARTIES (2) Stauffer
Nature and morphology of political parties; party systems; relation to electoral systems.
Daily 7:45-8:35

S 442 GOVERNMENT AND POLITICS OF CHINA AND JAPAN (2) Stauffer
The changing patterns of government; emphasis on problems faced and the institutional, ideological, and political answers created through time.
Daily 10:35-11:25

S 500 INTRODUCTION TO PUBLIC ADMINISTRATION (2) Waldo
Relationship of administration to policy-forming agencies and to the courts; structure of administration; devices for integration; related materials.
Daily 9:10-10:00

S 504 PROBLEMS IN PUBLIC ADMINISTRATION (2) Waldo
Introduction to materials and research methods used in public administration. Individual and group research projects. Restricted to seniors.
Daily 10:35-11:25
Health and Physical Education

An activities and locker fee of $3.00 is assessed and a medical clearance is required for all courses listed below except HPE S 230.

S 110 SWIMMING FOR BEGINNERS (1) Asato
Open only to those who cannot swim at least 50 yards. Emphasis will be placed upon the development of the proper movements, breathing, and co-ordination necessary in the basic skills of swimming.
Daily: 7:45-8:35

S 111 INTERMEDIATE SWIMMING (1) Asato
(2 sections)
For students who have met the basic requirements in swimming and desire to develop additional skills in swimming and diving. Emphasis is placed largely on mastering leg and arm stroking movements.
Daily 9:10-10:00
10:35-11:25

S 112 ADVANCED SWIMMING (1) Gustuson
For students who have met the basic and intermediate requirements in swimming and desire to develop additional skills in swimming and diving. Styles of swimming are mastered and emphasis is placed on co-ordination of parts into whole strokes for the purpose of developing ease, endurance, and versatility in the water.
Prerequisite: consent of instructor.
Daily 12:00-12:50

S 118 TRAMPOLINE (1) Gustuson
History, principles, and methods, safety procedures; tumbling and trampoline exercises.
Daily 9:10-10:00

S 119 BOARD SURFING (1) Gustuson
Lectures and demonstrations at U. H. Pool, followed by lessons in actual surfing at Waikiki Beach. Prerequisite: ability to swim 100 yards, or consent of instructor.
Daily 1:00-1:50

S 124 DANCES OF HAWAII (1) Beamer, Gay, Kaina, Sharpe
(12 sections)
This course is designed to acquaint the student with the background and fundamentals of the hula. Selected dances will be taught, with and without instruments. For certain advanced dances, a fee of $4.00 may be assessed for purchase of appropriate stone and bamboo sticks (pūʻili).
Daily 7:45- 8:35 (Kaina)
7:45- 8:35 (Gay)
7:45- 8:35 (Sharpe)
9:10-10:00 (Kaina)
9:10-10:00 (Gay)
9:10-10:00 (Sharpe)
10:35-11:25 (Beamer)
10:35-11:25 (Kaina)
10:35-11:25 (Sharpe)
12:00-12:50 (Kaina)
12:00-12:50 (Gay)
12:00-12:50 (Sharpe)
S 126 GOLF FOR BEGINNERS (1) Chui
Open to persons with very limited or no golf course experience. Emphasis will be placed on basic skills and fundamentals of the game. Instruction is restricted to driving range on campus.
Daily 7:45-8:35

S 127 INTERMEDIATE GOLF (1) Chui
For players with some experience on the golf course. Emphasis will be placed on improving basic skills leading to understanding of elementary principles of play in course management. Limited participation (2 round minimum) on the golf course. Green fees additional to course fees.
Daily 9:10-10:00

S 128 ADVANCED GOLF (1) Chui
For players with considerable experience. Emphasis will be placed on advanced techniques, finesse and management in scoring, rules and conditions relating to tournament play. U.S.G.A. handicapping system will also be studied. Extensive participation on the golf course. Green fees additional to course fees. Prerequisite: consent of instructor.
Daily 10:35-11:25

S 221 PHYSICAL EDUCATION, ELEMENTARY (2) Beamer
Content and method for programs on the elementary school level. Adaptations to meet situations with like age groups outside school will also be discussed.
Daily 11:30-1:00

History

S 151 WORLD CIVILIZATION (3) Margulies
A survey of the more significant political, social, economic, and intellectual factors in the development of the civilizations of the world from the ancient Middle East, Greece and Rome in the West, and the ancient cultures of China, Japan, and India in the East to the seventeenth century.
First 5-week term: June 20–July 22.
Daily 8:30-10:00

S 152 WORLD CIVILIZATION (3) Shinoda
Continuation of the history of world civilization from the seventeenth century to the present day.
Second 5-week term: July 25–August 26.
Daily 8:30-10:00

S 171 INTRODUCTION TO AMERICAN HISTORY (3) Hunter
A general survey of the evolution of America from Columbus' voyages to the present, emphasizing the political, intellectual, and social forces that have operated and that continue to guide the nation in the twentieth century.
Daily 8:45-10:00

S 439 AUSTRALIA AND NEW ZEALAND (2) Murphy
Major historical developments from colonization to independent nationhood; present problems and policies.
Daily 9:10-10:00

S 461 HISTORY OF THE UNITED STATES (COLONIAL PERIOD) (2) Warsh
A survey of the introduction of European civilization to the American scene and the growth of economic, social, and political institutions in the English colonies. Emphasis
on the Anglo-American colonies as a study in the history of Western colonialism from colonizing to independence.

Daily 10:35-11:25

S 477 AMERICAN ECONOMIC HISTORY (2) Margulies

This course deals with the principal economic developments in the United States since the Civil War. It considers such topics as the growth of industrial and finance capitalism, the economic interests of the various sections, the labor movement, the farmer in an industrial nation, and business enterprise and foreign policy.

Daily 10:35-11:25

S 492 THE SOUTH IN AMERICAN HISTORY (2) Warsh

The economy and society of the old South, with emphasis upon the role and nature of slavery; the Confederacy during the war; the Reconstruction period viewed in its national as well as sectional significance; recent economic and social trends, including a survey of the development of race relations in both public and private aspects.

Daily 9:10-10:00

S 529 SOUTHEAST ASIA (2) Crane

General survey of Burma, Thailand, Indo-China, Malaya, Indonesia, and the Philippine Republic; history of these states; relations with European nations and the United States.

Daily 10:35-11:25

S 533 CULTURAL HISTORY OF CHINA (2) Schafer

Historical outline of the distinctive and enduring aspects of Chinese civilization from the earliest times, with emphasis on the climax of medieval civilization in the T'ang dynasty, including folklore and religion, literature and the arts, and scientific discoveries. Foreign influences, as from Turkestan, Iran, India, and Southeast Asia, will be contrasted with indigenous tendencies.

Daily 12:00-12:50

S 536 TOPICS IN THE HISTORY OF CHINESE CULTURE (2) Schafer

Study of phases of the material culture and technology of traditional China, including domestic and tamed animals, flowers and useful plants, pigments and cosmetics, paints and dyes, gemstones and industrial minerals, drugs and aromatics, gardens and baths, and their role in Chinese thought, literature, and life.

Daily 10:35-11:25

S 542 HISTORY OF JAPAN (RECENT PERIOD) (2) Shinoda

A history of Japan from the 17th century to the present, emphasizing the reunification of the country, the rise of an urban culture, the adoption and ultimate abandonment of the seclusion policy, the transition from feudalism to modernism, the internal and external development of Japan as a modern state, and an evaluation of contemporary Japanese civilization.

Daily 12:00-12:50

S 551 INDIA, PAKISTAN, AND CEYLON (2) Crane

A general historical survey of Modern India; the rise of nationalism, relations with the British Commonwealth before and after independence; relations with other nations both in and outside of the United Nations and particularly with the new nations of Asia; with particular stress on political, economic, social, and cultural developments since independence.

Daily 7:45-8:35

S 572 PACIFIC ISLANDS FROM 1779 (2) Murphy

Expansion of European commerce, missionary activity, settlement; effects on native peoples in Australasia, Melanesia, Micronesia, Polynesia.

Daily 12:00-12:50
HISTORY OF THE HAWAIIAN ISLANDS (2)  Hunter

Hawaii in the Pacific: its people, customs, relations with the great powers. Emphasis on the period of the monarchy, the revolution and annexation, but with some attention to territorial problems and statehood.
Daily 10:35-11:25

Home Economics

FOODS OF THE PACIFIC (3)  Gruelle, Bartow

Designed to acquaint the student with the cookery, food habits, and customs of the nations bordering on the Pacific and represented in Hawaii. Chinese, Filipino, Hawaiian, Japanese, and Korean foods will be prepared and served. Field trips to food markets will be arranged if desired. One 2-hour lecture period and two 2½-hour laboratory periods weekly. Prerequisite: Home Economics courses in foods or previous experience in food preparation or consent of instructor. Open to men and women. Lab fee $20.00.
Lecture, M 10:30-12:20 Laboratory, TTh 10:10-12:50 MF 10:10-12:50

CHILD STUDY AND OBSERVATION (3)  Sidwell

Study and observation of children from birth to six years. Consideration of all factors which affect the care of the normal child in the home. Possible development of a play school depending upon class interest. Prerequisite: Psychology 102 or 104.
Daily 8:45-10:00

COSTUMES OF ASIA (2)  Umbel

Historical development and characteristic features of traditional and folk costumes and fabrics of China, Japan, Korea, Philippines, India, and Southeast Asia in relation to customs and culture. Impact of Western influence on contemporary costume. Slides, pictures, costumes, guest lecturers, exhibits, and field trips.
Daily 10:35-11:25

ASIAN COSTUME AND WESTERN DRESS (2)  Umbel

Adaptation and use of fabrics, designs, and techniques of traditional and folk costumes of Asia in distinctive Western clothes. Analysis of clothing forms, demonstrations and laboratory participation. Lab fee $5.00. Prerequisite: previous experience in clothing construction. Enrollment limited. Preference given to students registered in S 418.
Daily 8:10-10:00

Indonesian

ELEMENTARY INDONESIAN (3)  Staff

An intensive course equivalent to the first semester's work in the academic year. Emphasis on conversation. One hour of laboratory drill daily is required. Lab fee $1.00. First 5-week term: June 20–July 22.
Daily 8:10-10:00 Laboratory, daily 10:15-11:10, or 11:15-12:10, or 1:10-2:05

ELEMENTARY INDONESIAN (3)  Staff

Continuation of S 101, the equivalent of the second semester's work in the academic year. One hour of laboratory drill daily is required. Lab fee $1.00. Second 5-week term: July 25–August 26.
Daily 8:10-10:00 Laboratory, daily 10:15-11:10, or 11:15-12:10, or 1:10-2:05
Industrial Arts

S 101 HAND WOODWORKING (3)
Fundamental operations and information topics in woodworking. Construction of projects. Fee $10.00.
Daily 7:20-9:55 Stevenson Intermediate School

Institute for Science and Mathematics Teachers

The following courses are designed primarily for students enrolled in the Institute for Science and Mathematics Teachers, and enrollment is permitted only with the consent of the Director of the Institute. For information on the Institute, see page 20.

BOTANY S 120 INTRODUCTION TO MODERN BOTANY (3)
An introduction to basic concepts, and a review of fundamentals and recent developments in botany.

CHEMISTRY S 120 INTRODUCTION TO MODERN CHEMISTRY (3)
An introduction to basic concepts, and a review of fundamentals and recent developments in chemistry.

EDUCATION S 248 TEACHING ELEMENTARY ALGEBRA FROM A MODERN POINT OF VIEW (2)
Especially intended for the participant. Observation and critique of a demonstration class. Some of the mathematical ideas treated in Mathematics S 242 will be taught to students who are beginning the study of elementary algebra.

MATHEMATICS S 242 MODERN MATHEMATICS (4)
Especially intended for the participant. A study of the structure of elementary algebra (the field properties of the real number system), including an introduction to the algebra of sets and a study of the use of variables and quantifiers in mathematical discourse. Corequisite: Education S 248.

MATHEMATICS S 243 INTERMEDIATE MODERN MATHEMATICS (4)
Reflexive and symmetric properties of relations, functions as special relations, functions as mappings, composition of functions, inverses, variable quantities as numerical-valued functions. Linear and quadratic functions. Systems of equations.

PHYSICS S 130 ELEMENTS OF PHYSICS (6)
Emphasis on fundamental concepts from Newtonian mechanics to modern theories of the structure of matter.

Institute in Radiation Biology for High School and College Teachers

The following courses are open only to students accepted for enrollment in the Institute. For information on the Institute, see page 20.

ZOOLOGY S 622 USE OF ISOTOPE TRACERS IN BIOLOGY (4)
A survey of atomic structure, stable and radioactive isotopes, principles and use of equipment in tracer work and their application to problems of physiology, genetics, and other biological fields. Daily lectures; laboratory work, Monday, Wednesday, and Friday afternoons; field trips. Hours to be arranged.
ZOOLOGY 5 623 BIOLOGICAL ASPECTS OF RADIATION (2)  
Staff
The effects of ionizing radiations on biological systems; types of radiations, their penetration and shielding; modern knowledge of the somatic and genetic effects of radiation. Hours arranged.

Institute on Asian Studies
For the basic courses to be taken by all enrollees in this Institute, see S 610 and S 611 under ASIAN STUDIES. For a list of 2-credit courses, from which an additional course is to be selected, consult the Institute Director. See page 18.

Japanese

S 101 ELEMENTARY JAPANESE — CONVERSATIONAL (3)  
McElrath
An intensive course equivalent to the first semester's conversation course in the academic year. One hour of laboratory drill daily is required. Lab fee $1.00. First 5-week term: June 20–July 22. May be taken concurrently with S 103.
Daily 10:10-12:00 Laboratory, daily 8:10-9:00, or 9:10-10:00, or 1:10-2:05

S 103 ELEMENTARY JAPANESE — READING (3)  
Fujioka
An intensive course equivalent to a full semester's reading course in the academic year. Training in reading; katakana, hiragana, kanji.
First 5-week term: June 20–July 22. May be taken concurrently with S 101.
Daily 8:10-10:00

S 102 ELEMENTARY JAPANESE — CONVERSATIONAL (3)  
McElrath
Continuation of S 101; the equivalent of the second semester's work in the academic year. Students completing this course may take Intermediate Japanese—Conversational. One hour of lab drill daily is required. Lab fee $1.00.
Second 5-week term: July 25–August 26. May be taken concurrently with S 104.
Daily 10:10-12:00 Laboratory, daily 8:10-9:00, or 9:10-10:00, or 1:10-2:05

S 104 ELEMENTARY JAPANESE — READING (3)  
Fujioka
Continuation of S 103. Second 5-week term: July 25–August 26. May be taken concurrently with S 102.
Daily 8:10-10:00

Library Science

S 310 THE LIBRARY IN TEACHING (2)  
Lantz
For prospective teachers and librarians. Use of the library in classroom instruction; use of school and public library resources; teaching library skills.
Daily 7:45-8:35

S 320 REFERENCE MATERIALS (3)  
Tom
Introduction to basic types of reference sources; their evaluation, content, and use. Not limited to College of Education students.
Daily 8:45-10:00

S 330 BOOK SELECTION AND READING GUIDANCE (3)  
Lantz
Selection and use of school library materials in terms of the curriculum and children's needs and interests. Prerequisite: Education 225 or 235.
Daily 10:10-11:25
Mathematics

S 101 INTERMEDIATE ALGEBRA (3)  Nagy
Daily 7:20-8:35

S 102 PLANE TRIGONOMETRY (3)  Nagy
Prerequisite: two years of high school algebra or Mathematics 101; one year of plane geometry. No credit if taken after 104.
Daily 8:45-10:00

S 103 COLLEGE ALGEBRA (3)  Young
(2 sections)
Prerequisite: two years of high school algebra or Mathematics 101.
Daily 7:20-8:35

S 104 PLANE ANALYTICAL GEOMETRY (3)  Spiller, Townes
(2 sections)
Prerequisite: Mathematics 102; credit or concurrent registration in Mathematics 103.
Daily 7:20-8:35 (Townes)
8:45-10:00 (Spiller)

S 131 DIFFERENTIAL CALCULUS (3)  Spiller, Comba
(2 sections)
Prerequisite: Mathematics 104.
Daily 7:20-8:35 (Spiller)
10:10-11:25 (Comba)

S 132 INTEGRAL CALCULUS (3)  Townes
Prerequisite: Mathematics 131.
Daily 8:45-10:00

S 133 CALCULUS APPLICATIONS (3)  Comba
Includes partial differentiation, multiple integration, and elementary differential equations. Prerequisite: Mathematics 132.
Daily 8:45-10:00

Medical Technology

S 266 MEDICAL TECHNOLOGY (4)  Kagawa
Student technician training in a co-operating laboratory under the supervision of a qualified director. Prerequisite: Bacteriology 262, 264.
Hrs. arr.

Military Science

S 300 SUMMER CAMP (2)  Staff
A six-week training period to supplement previous instruction. Prerequisite: Military Science 201-202. Required for appointment in the Army Reserve.

Music

S 111 GROUP VOICE INSTRUCTION (1)  Vine
Basic principles of voice production and elementary music skills in classes of twenty.
Daily 7:45-8:35

S 140 RECREATIONAL MUSIC (2)  Mundy
Stress on skills necessary for leaders of recreational activities; methods, materials, and
organization of recreational activities for the home, the school, the church, and the community; including experience on Hawaiian instruments.
Daily 10:35-11:25

S 150  ELEMENTARY MUSICIANSHIP (3)
(2 sections)
Saclausa, Mundy
The elements of musicianship covering terminology, notation, sight singing, and rhythmic and melodic dictation. A basic course for all prospective teachers. May be required of music majors who lack experience and training.
Daily 7:20- 8:35
8:45-10:00

S 151  INSTRUMENTAL MUSIC (2)
Becker
Basic skills and teaching methods on stringed instruments. For students preparing to teach instrumental music.
Daily 7:45-8:35

S 154  INSTRUMENTAL MUSIC (2)
Brown
Basic skills and teaching methods on brass instruments. For students preparing to teach instrumental music.
Daily 12:00-12:50

Students relax on the circular bench in the foyer of the new music building's practice room. The room partitions into 16 air-conditioned studios each shaped like a piece of pie. Special attraction of the area is to be a growing tree that will receive sun and rain through the ceiling opening.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Meeting Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>S 160</td>
<td>INTRODUCTION TO MUSIC LITERATURE (3) Becker</td>
<td></td>
<td>Daily 10:10-11:25</td>
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<tr>
<td></td>
<td>An introduction to music from the listener's point of view, with concentration on orchestral literature from the classical through the modern period. Emphasis on listening to recorded music. Course fee $2.00.</td>
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<tr>
<td>S 171</td>
<td>JAPANESE DANCE AND ITS MUSIC (1) Arai</td>
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<td>Daily 9:10-10:00</td>
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<tr>
<td></td>
<td>Introduction to Japanese dance, folk and traditional. Background, demonstration, and participation.</td>
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<tr>
<td>S 172</td>
<td>KOREAN DANCE AND ITS MUSIC (1) Huhm</td>
<td></td>
<td>Daily 7:45-8:35</td>
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<tr>
<td></td>
<td>Introduction to Japanese dance, folk and traditional. Background, demonstration, and participation.</td>
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<tr>
<td>S 200</td>
<td>UNIVERSITY CHORUS (1) Saclausa</td>
<td></td>
<td>Daily 12:00-12:50</td>
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<tr>
<td>S 251</td>
<td>MUSIC, ELEMENTARY CURRICULUM (2) Kahananui</td>
<td></td>
<td>Daily 12:00-12:50</td>
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<tr>
<td></td>
<td>Organization and direction of music in childhood experience. Materials and procedures. Grades 1, 2, 3. Prerequisite: Music 150.</td>
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<tr>
<td>S 263</td>
<td>MUSIC OF THE ROMANTIC PERIOD (2) Vaught</td>
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<td>Daily 9:10-10:00</td>
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<td></td>
<td>Emergence of the romantic style of the nineteenth century composers. Fee $2.00.</td>
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<tr>
<td>S 264</td>
<td>MUSIC OF THE CONTEMPORARY PERIOD (2) Vaught</td>
<td></td>
<td>Daily 7:45-8:35</td>
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<td></td>
<td>From Debussy to the present. Compositions by Schoenberg, Bartok, Hindemith, Stravinsky, and contemporary American composers. Course fee $2.00.</td>
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<tr>
<td>S 301</td>
<td>ENSEMBLE MUSIC (1) Vine</td>
<td></td>
<td>Daily 10:35-11:25</td>
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<tr>
<td></td>
<td>Opera Workshop. May be repeated. Consent of instructor. Hrs. arr.</td>
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<tr>
<td>S 363</td>
<td>THE SEMANTICS OF MUSIC (2) Rapoport</td>
<td></td>
<td>Daily 10:35-11:25</td>
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<td></td>
<td>An analysis of the symbolic content of music as it appears in the different musical epochs and schools, e.g., the contrapuntal, late classical, romantic, and post-romantic periods. Abstract and descriptive types of music analyzed as &quot;languages.&quot; The lectures will be illustrated on the phonograph and at the piano.</td>
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<tr>
<td>S 454</td>
<td>PACIFIC AND ASIAN MUSIC IN EDUCATION (2) Smith, Kahananui</td>
<td></td>
<td>Daily 10:35-11:25</td>
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<tr>
<td></td>
<td>Songs, dances, musical instruments of Hawaii and Asia, for grades 4, 5, 6. Prerequisite: Music 150, 251, 252, or consent of instructors. Rehearsal hours arranged.</td>
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<tr>
<td>S 470</td>
<td>MUSIC OF THE FAR EAST (3) Smith</td>
<td></td>
<td>Daily 8:45-10:00</td>
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<tr>
<td></td>
<td>Introduction to the folk and traditional music of Asia. Recordings, demonstrations, pictures, etc. Course fee $3.00.</td>
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**Applied Music**

_Students who wish to register for Applied Music courses must see the Chairman of the Music Department before registration takes place._
**S 121 (11) CLASS INSTRUCTION (1)**

Class instruction in voice. Two lessons per week. Practice facilities in Music Building. Course fee $20.00.

**Hrs. arr.**

**S 121 (21) CLASS INSTRUCTION (1)**

Class instruction in piano. Two lessons per week. Practice facilities in Music Building. Course fee $20.00.

**Hrs. arr.**

**S 131 (11) INDIVIDUAL INSTRUCTION (1)**

Voice. For nonmusic majors, or music majors who intend it as a secondary medium of performance. May be repeated. Course fee $55.00.

**Hrs. arr.**

**S 131 (12) INDIVIDUAL INSTRUCTION (1)**

Hawaiian chant. Unaccompanied and accompanied chants with instruction on the pahu (drum), ipu (gourd), pu’i’i (bamboo rattle), ‘u‘u‘u‘u (gourd rattle), and ‘i‘i‘i (stone castanets).

**Hrs. arr.**

**S 131 (21) INDIVIDUAL INSTRUCTION (1)**

Piano. For nonmusic majors, or music majors who intend it as a secondary medium of performance. May be repeated. Course fee $55.00.

**Hrs. arr.**

**S 131 (31) INDIVIDUAL INSTRUCTION (1)**

String. For nonmusic majors, or music majors who intend it as a secondary medium of performance. May be repeated. Course fee $55.00.

**Hrs. arr.**

**S 131 (41) INDIVIDUAL INSTRUCTION (1)**

Woodwind. For nonmusic majors, or music majors who intend it as a secondary medium of performance. May be repeated. Course fee $55.00.

**Hrs. arr.**

**S 131 (51) INDIVIDUAL INSTRUCTION (1)**

Brass. For nonmusic majors, or music majors who intend it as a secondary medium of performance. May be repeated. Course fee $55.00.

**Hrs. arr.**

**S 131 (61) INDIVIDUAL INSTRUCTION (1)**

Percussion. For nonmusic majors, or music majors who intend it as a secondary medium of performance. May be repeated. Course fee $55.00.

**Hrs. arr.**

**S 135, 136, 137, 138, 235, 236, 237, 238, 435, 436**

Advanced individual instruction in piano, voice, string, woodwind, brass, percussion. Course number assigned after auditions with Music Department staff members. Course fee $55.00.

**Hrs. arr.**

**Philosophy**

**S 150 HISTORY OF PHILOSOPHY (3)**

Western philosophy from the era of great Greek thinkers to the Renaissance. Prerequisite: sophomore standing.

Daily 8:45-10:00
S 250 ETHICS (2) Moore
Relevance of the major theories of the good life to the process of decision making. Daily 10:35-11:25

S 455 INTRODUCTION TO CHINESE PHILOSOPHY (2) Chan
Historical survey of the important philosophical schools and tendencies in China, ancient and modern. Daily 7:45-8:35

S 470 CONTEMPORARY ASIAN THOUGHT (2) Chan
Modern expressions of Hinduism in the writings of Tagore, Aurobindo, Gandhi, and Radhakrishnan; Buddhist revival in Southeast Asia; the New Buddhism in China; Chinese reconstruction of Confucianism; the introduction of Western philosophies by Hu Shih and others; the essential meaning of Zen; Nishida and modern Japanese thought; comparison of Communism and Asian thought. Daily 10:35-11:25

S 570 THE LANGUAGE OF MATHEMATICS (2) Rapoport
A nontechnical course on the nature of mathematical ideas. A glimpse into the nature of the mathematician's work. How the language of mathematics has nurtured ideas for revising our language habits in general. Famous problems, solved and unsolved. Mathematical esthetics. Daily 9:10-10:00

Photography

S 100 PRINCIPLES OF PHOTOGRAPHY (2) Hayashi
The science of photography. The camera, its construction and use; image formation; lenses, their characteristics and aberrations; shutters; film construction and use, both color and black and white; filters and their use; processing of films; printing by contact and projection. Lectures; demonstrations. Students are required to have their own cameras. Course fee $1.00. M W F 1:00-2:15

Psychology

Psychology 102, 104, or the equivalent is prerequisite to all psychology courses listed below.

S 102 GENERAL PSYCHOLOGY (4) Wilson
A survey of the facts and principles fundamental to human behavior and experience. Individual differences, personality, motivation, emotion, sensing, perceiving, learning, and thinking. Not open to those who have had Psychology 104. Lab fee $1.00. Daily 8:45-10:00 Laboratory, M W 10:10-12:00, or 1:30-3:20

S 104 INTRODUCTION TO PSYCHOLOGY (3) Livesay
Similar to 102 but without laboratory. Not open to those who have had 102. Daily 11:35-12:50

S 150 PSYCHOLOGY OF INFANCY AND CHILDHOOD (2) Grinder
Principles basic to the normal development of the infant and child; emphasis upon physical, emotional, intellectual, and social development. Daily 9:10-10:00
S 152  PSYCHOLOGY OF ADOLESCENCE AND MATURITY (2) Herrick
Developmental characteristics during preadolescent, adolescent, and adult years; emphasis upon physical, emotional, intellectual, and social factors and changes.
Daily 7:45-8:35

S 270  APPLIED PSYCHOLOGY (2) Livesey
Application of psychological principles to problems of personal efficiency and to the fields of commerce, highway traffic, law, and medicine.
Daily 9:10-10:00

S 280  PSYCHOLOGY OF ADJUSTMENT (3) Arkeff
Understanding and improving personal adjustment. Adjustment in family, school, vocation, sex, marriage, and later maturity.
Daily 11:35-12:50

S 404  PSYCHOLOGY OF MOTIVATION (2) Wilson
Instinct, drive, motives, emotion, and attitudes; their biological bases, modification, and organization.
Daily 12:00-12:50

S 406  PSYCHOLOGY OF LEARNING (2) Digman
The major conditions influencing learning and forgetting; the role of motivation, rewards, and practice; theoretical interpretations of the learning process.
Daily 10:35-11:25

S 408  PSYCHOLOGY OF THINKING (2) Vinacke
Concept formation, problem solving, creative imagination, artistic thinking, attitudes, and opinions.
Daily 10:35-11:25

S 420  STATISTICAL TECHNIQUES (3) Saunders
Use of statistical techniques in psychological problems; measures of central value and variability; graphic methods; correlation; reliability of measures; tests of significance. Prerequisite: two years of high school algebra or Math 101 or consent of instructor.
Daily 10:10-11:25

S 426  PSYCHOLOGICAL MEASUREMENTS (2) Cronbach
Construction, validation, and administration of tests; interpretation and application of scores; familiarization with types of group tests. Prerequisite: Psychology 420.
Daily 9:10-10:00

S 460  PSYCHOLOGY OF PERSONALITY (3) Vinacke
The development of personality; critical evaluation of research on various aspects of personality.
Daily 8:45-10:00

S 462  SOCIAL PSYCHOLOGY (3) Murphy
Psychology of human relations; psychological factors that determine the behavior of an individual in his social relationships.
Daily 10:10-11:25

S 472  EDUCATIONAL PSYCHOLOGY (3) Cronbach
Major factors of learning and mental health as they apply to the educative process.
Daily 11:35-12:50
Statistics and measurements.
Daily 7:45-8:35

Social.
Daily 12:00-12:50

Counseling.
Daily 10:35-11:25

Application of experimental evidence in psychology to major educational problems; the bearing of recent psychological theories upon education.
Daily 11:35-12:50

An introduction to the basic ideas and issues of contemporary religious thought as they are related to the question, "What is the meaning of existence?" Among the issues to be discussed are the meaning of man's search for himself; the nature of man; the content of such basic concepts as God, faith, estrangement, and reconciliation.
Daily 11:35-12:50

A comparative study of the basic beliefs, practices, and contributions of the religious forces most significant in Hawaii today, including Buddhism, Shinto, Confucianism, Taoism, Judaism, and Christianity.
Daily 10:35-11:25

Fundamentals of visual astronomy: the apparent movements and location of heavenly bodies, including the sun, moon, planets, and stars. Facts about the solar system: the sun, planets, their moons, comets, meteors; eclipses and how they are foretold; how the solar system may have been formed. Main facts about the stars: their number, magnitude, distance, brightness, color, temperature, size, and movements; variable stars. Our galaxy and other galaxies which make up an expanding universe. Star charts and how to use them. Practical uses of astronomy, especially in the calendar, time, mapping, and navigation. Astronomical observatories, ancient and modern, and the tools they use. Polynesian astronomy and how Pacific islanders have made practical use of the apparent position of the heavenly bodies. How astronomical knowledge has grown and what has been written about the subject.
Daily 10:35-11:25

A nonprofessional orientation course intended to acquaint the student with the philosophy, scope, and aims of social work. Prerequisite: junior standing.
Daily 7:45-8:35
Sociology

Sociology 151 or the equivalent is prerequisite to all advanced courses in sociology.

S 151 INTRODUCTION TO THE STUDY OF SOCIETY (3) Voss
An orientation course. The basic social relationship, the corresponding social structures, and the processes affecting social change.
Daily 11:35-12:50

S 232 COMMUNITY FORCES IN HAWAII (3) Glick
The basic factors and forces operating in contemporary society, with special attention to Hawaii. An orientation course designed for students planning careers in teaching, vocational home economics, recreation, public health, medicine, and other professions.
Daily 8:45-10:00

S 436 THE URBAN COMMUNITY (2) Voss
Sociological principles applied to the modern city. Structure, growth, social and personal life organization in an urban setting.
Daily 7:45-8:35

S 444 PEOPLES AND INSTITUTIONS OF CHINA (2) Cheng
An analysis of Chinese social philosophies and their influence on basic institutions and traits of the people. The nature and effect of the impacts of Western culture and Communism. July 5-29.
Daily 10:10-11:25

S 454 RACE RELATIONS IN SOUTHEAST ASIA (2) Glick
Analysis of typical situations of race relations in Southeast and South Asia; interracial contacts, conflicts, and accommodations; sociological aspects of miscegenation; changes in patterns of race relations with shift from colonial era to independent but underdeveloped "nonwhite" nations; effects of race relations upon personality, institutions, and social structures.
Daily 10:35-11:25

S 472 THE FAMILY (3) Cheng
Culturally distinctive family types as background for analysis and interpretation of American family life in its social contexts.
Daily 7:20-8:35

S 480 SOCIOLOGY OF RELIGION (3) Wittermans
Social background and functions of religious beliefs and practices with reference to Western and non-Western religious systems.
Daily 10:10-11:25

S 500 SOCIAL DISORGANIZATION (2) Faris
Social factors in the disorganization of communities, institutions, and groups. Deviant and pathological personal behavior. An integrated approach to social problems.
Daily 10:35-11:25

S 524 PERSONALITY AND CULTURE (2) Faris
The origin and development of personality as a subjective aspect of culture; the function of communication; human nature and the mores; personal life organization.
Daily 9:10-10:00
S 544  SOCIAL CHANGE (2)  Wittermans
Structural-functional organization. Impact of technology on institutions, value orientation, power structures, system of role and stratification.
Daily 7:45-8:35

S 620  HAWAII AND ITS PEOPLE (5)  Yamamuro
Ecological, demographic, and cultural factors in the development of the modern Hawaiian community: analysis of factors affecting the definitions of race and race relations in Hawaii; institutional structure and function with special reference to the influences of native and immigrant institutions on contemporary life in Hawaii. Field trip fee $10.00.

Spanish

S 101  ELEMENTARY SPANISH (3)  Roth
An intensive course in reading, grammar, conversation, and writing; additional oral drill in laboratory; equivalent of a full semester's work in the academic year. Lab fee $1.00.
First 5-week term: June 20-July 22.
Daily 11:00-12:50  Laboratory, daily 8:10-9:00, or 9:10-10:00, or 10:10-11:00

S 102  ELEMENTARY SPANISH (3)  Knowlton
Continuation of S 101; the equivalent of the second semester's work in the academic year. Students completing this course with a passing grade may take Intermediate Spanish. Lab fee $1.00.
Second 5-week term: July 25-August 26.
Daily 11:00-12:50  Laboratory, daily 8:10-9:00, or 9:10-10:00, or 10:10-11:00

S 151  INTERMEDIATE SPANISH (3)  Broton
Reading, conversation, laboratory drill, some grammar and composition; the equivalent of a full semester's work in the academic year. Prerequisite: Spanish 102 or the equivalent. Lab fee $1.00.
First 5-week term: June 20-July 22.
Daily 8:10-10:00  Laboratory, daily 10:15-11:10, or 11:15-12:10, or 12:15-1:10

S 152  INTERMEDIATE SPANISH (3)  Broton
A continuation of S 151; the equivalent of the second semester's work in the academic year. Students passing this course will have fulfilled the college language requirement. Prerequisite: Spanish 151, or with special consent three years high school Spanish. One hour of lab drill daily is required. Lab fee $1.00.
Second 5-week term: July 25-August 26.
Daily 8:10-10:00  Laboratory, daily 10:15-11:10, or 11:15-12:10, or 12:15-1:10

Speech

S 100  FUNDAMENTALS OF SPEECH (1)  Vanderslice
(2 sections)
Communication for social interaction. Speech production; organization of ideas; training for mastery of speech standards. Conferences required. Fee $1.00.
Daily 7:45-8:35  9:10-10:00

S 106  PRONUNCIATION AND GRAMMAR FOR PROSPECTIVE TEACHERS (1)  Gordon
Continued work on sounds and rhythms; idiom and grammar. Prerequisite: Speech 110. Fee $1.00.
Daily 9:10-10:00
S 110  SOUNDS OF ENGLISH FOR PROSPECTIVE TEACHERS (1)  Phipps, Sereno
(4 sections)
Sounds and rhythms of General American speech. Techniques for correction of
pronunciation and improvement of rhythm. Fee $1.00.
Daily  7:45- 8:35  (Sereno)
       9:10-10:00  (Sereno)
       10:35-11:25  (Phipps)
       12:00-12:50  (Phipps)

S 130  READING ALOUD (2)  Breneman
Study of the relationships between silent and oral reading with intensive practice
in getting and giving the meaning from the printed page.
Daily  9:10-10:00

S 135  ORAL READING FOR PROSPECTIVE TEACHERS (1)  Vanderslice, Larson
(2 sections)
Oral interpretation of literature; getting and giving the meaning of the printed word.
Conferences required. Prerequisite: Speech 110. Fee $1.00.
Daily  7:45- 8:35  (Larson)
       10:35-11:25  (Vanderslice)

S 150  PUBLIC SPEAKING (2)  Sereno, Yonan
(3 sections)
Basic principles of speech composition and delivery; preparation and delivery of
speeches with attention to principles studied; special attention to individual problems.
Daily  7:45- 8:35  (Yonan)
       9:10-10:00  (Yonan)
       10:35-11:25  (Sereno)

S 214  VOICE TRAINING FOR SPEECH (2)  Bentley
Physical and physiological bases of voice production; problems of nasality, inaudi-
bility, monotony. Prerequisite: permission of instructor, or recommendation of
department.
Daily  12:00-12:50

S 365  SPEECH FOR THE CLASSROOM TEACHER (3)  Breneman, Gordon, Hoshor,
       Larson, Lefforge
(6 sections)
Pedagogy for the classroom teacher. Integration of speech improvement in the
curriculum; speech problems of Hawaii. Prerequisite: Speech 110.
Daily  7:20- 8:35  (Breneman) Secondary
       8:45-10:00  (Larson)  Elementary
       8:45-10:00  (Hoshor)  Secondary
       8:45-10:00  (Lefforge)  Secondary
       10:10-11:25  (Hoshor)  Secondary
       11:35-12:50  (Gordon)  Elementary

S 428  FUNDAMENTALS OF AUDIOLOGY (2)  Ansberry
Hearing and its effects on speech. Problems of the deaf and hard-of-hearing with
emphasis on educational techniques. Training in the use of audiometric equipment.
Daily  7:45-8:35

S 440  SEMANTICS (3)  Hayakawa
Language in understanding; verbal meaning and implication; the role of assump-
tion in interrelationships. Use of language for clarity, accuracy, and evaluation.
Daily  8:45-10:00
SEMINAR IN SPEECH PATHOLOGY (3)  
Problems in the etiology and therapy of speech deviations.  
Daily 11:35-12:50  
Persons interested in Speech courses are also referred to Education S 239, EXTRACURRICULAR SPEECH ACTIVITIES.

Thai

S 101 ELEMENTARY THAI (3)  
Tulyathorn  
An intensive course equivalent to the first semester’s work in the academic year. Emphasis on conversation. One hour of laboratory drill daily is required. Lab fee $1.00. First 5-week term: June 20-July 22.  
Daily 10:10-12:00 Laboratory, daily 8:10-9:00, or 9:10-10:00, or 1:10-2:05

S 102 ELEMENTARY THAI (3)  
Tulyathorn  
Continuation of S 101, the equivalent of the second semester's work in the academic year. One hour of laboratory drill daily is required. Lab fee $1.00.  
Second 5-week term: July 25-August 26.  
Daily 10:10-12:00 Laboratory, daily 8:10-9:00, or 9:10-10:00, or 1:10-2:05

Zoology

S 111 PRINCIPLES OF HUMAN BIOLOGY (3)  
Matthews  
Biological principles relating to man; man’s place in nature; structure and function of the organ systems. Not open to students who have had Zoology 101.  
Daily 8:45-10:00

S 321 HUMAN HEREDITY AND EUGENICS (2)  
Keim  
The manner of inheritance of human differences as revealed by pedigree analysis, twin studies, and population statistics. Implications of heredity in marriage counseling, medicine, and human welfare.  
Daily 10:35-11:25
Postsession
August 1–19 unless otherwise noted

EDUCATION PS 326 CREATIVE ART, ELEMENTARY (2)
Individual and group projects to promote understanding of the creative use of art
materials, tools, ideas, and their sources. Work in paint, clay, wood, etc. Studio
fee $5.00. Prerequisite: Education 220-221.
Daily 8:10-12:25

EDUCATION PS 650 HISTORY OF EDUCATION (3) Stueber
History of educational thought and practice as a basis for the study of modern
school problems.
Four weeks, August 1-26.
Daily 8:05-10:00

EDUCATION PS 680 PUBLIC SCHOOL ORGANIZATION (2) Nelson
The function of the teacher in school administration; state and territorial organiza­
tion of public education; Hawaii school law and D.P.I. regulations.
Four weeks, August 1-26.
Daily 8:45-10:00

HPE PS 221 PHYSICAL EDUCATION, ELEMENTARY SCHOOL (2) Beamer
Content and method for programs on the elementary school level. Adaptations to
meet situations with like age groups outside school will also be discussed.
Daily 1:10-3:40

HPE PS 230 SCHOOL HEALTH PROBLEMS (2) Rathburn
(2 sections)
Health needs of the school child and principles, methods, and materials applicable
to the school health program.
Elementary — Daily 10:30-12:20
Secondary — Daily 1:10-3:40

MUSIC PS 559 BAND WORKSHOP-CLINIC (2) Sawhill, Staff
A course designed specifically for school band directors. This will include rehearsal
techniques and procedures as well as presentation of special techniques and methods
for improvement of teaching the various instruments and ensemble groups found
in the school instrumental program.
August 8-19. Hrs. arr.

SPEECH PS 365 SPEECH FOR THE CLASSROOM TEACHER (3)
Pedagogy for the classroom teacher. Integration of speech improvement in the
curriculum; speech problems of Hawaii. Prerequisite: Speech 110.
Four weeks, August 1-26.
Daily 10:20-12:15

SPEECH PS 640 SEMINAR IN SEMANTICS (3) Staff
Origins and principles of semantics including sessions exploring the application of
general semantics to interpersonal relations and the functioning of groups. Prereq­
usite: concurrent enrollment in the international conference in general semantics.
Hrs. arr.
BACTERIOLOGY HS 130 MICROBES AND MAN (2) Noda
A general introduction to the world of microbiology. The different kinds of microorganisms and their roles in agriculture, industry, in the preparation of foods and beverages, and the economy of the sea. Functions of germs in health and disease. Not open to students who have had Bacteriology 151. Prerequisite: a year of high school science or its equivalent.

EDUCATION HS 655 PHILOSOPHY OF EDUCATION (3) Kelley
Philosophy and science in education; social, psychological, and ethical considerations essential to a philosophy of education.

EDUCATION HS 669 EDUCATION OF RAPID LEARNERS (2) Kelley
Analysis of the special problems of the rapid learners and the development of techniques and programs for serving them.

ENGLISH HS 101 COMPOSITION (3) Yamanoha
Principles and practice of composition—expository forms. First semester. For all students qualifying in University entrance examination.

HISTORY HS 171 INTRODUCTION TO AMERICAN HISTORY (3) Johnson
A general survey of the evolution of America from Columbus’ voyages to the present, emphasizing the political, intellectual, and social forces that have operated and that continue to guide the nation in the twentieth century.

HISTORY HS 575 THE UNITED STATES IN THE PACIFIC (2) Johnson
Study of the establishment and historical development of the economic, humanitarian, and political interests of the people of the United States in the lands of the Pacific area. Special emphasis is placed on the relationships between such interests and the public policies of the United States Government.

SCIENCE HS 210 GEOLOGY AND VOLCANOES OF THE HAWAIIAN ISLANDS (2) Macdonald
A general survey of geologic processes and how they have operated in producing the present landscapes of the Hawaiian Islands. Hawaiian volcanic activity, and how it contrasts with that of other areas; the building of the great Hawaiian volcanic mountains; their sculpture by gravity, streams, waves, winds, and ice; the formation of coral reefs. Illustrated by Hawaiian examples. Field trips arranged.
MWF 1:00-2:15 p.m.