1970 SUMMER CALENDAR

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FIRST TERM (JUNE 15-JULY 24)

June 10, 12, Wednesday, Friday - Registration for UH students and residents of Hawaii
June 15, Monday - Registration
June 16, Tuesday - Instruction begins
June 19, Friday - Last day of registration for credit
June 22, Monday - Last day for withdrawal from courses without grade penalty
July 3, Friday - Holiday (Independence Day)
July 17, Friday - Last day for withdrawal from courses
July 24, Friday - First term ends

SECOND TERM (JULY 27-SEPTEMBER 4)

July 27, Monday - Registration
July 28, Tuesday - Instruction begins
July 31, Friday - Last day of registration for credit
August 2, Sunday - Summer Commencement
August 3, Monday - Last day for withdrawal from courses without grade penalty
August 21, Friday - Holiday (Admission Day)
August 28, Friday - Last day for withdrawal from courses
September 4, Friday - Second term ends
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ADMINISTRATION AND FACULTY

Administration

UNIVERSITY

Harlan Cleveland, A.B., LL.D., L.H.D., D.C.L., Litt.D., President
Richard H. Kosaki, Ph.D., University Vice-President
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Kenneth K. Lau, LL.M., Vice-President for Business Affairs
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Hubert V. Everly, Ph.D., College of Education
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Herbert H. Aptekar, D.S.W., School of Social Work
Ralph M. Miwa, Ph.D., Division of Continuing Education and Community Service
Robert D. Stevens, Ph.D., Graduate School of Library Studies

SUMMER SESSION*

Shunzo Sakamaki, Ph.D., Dean
Shiro Amioka, Ph.D., Associate Dean
Takeshi Moriwasaki, Ph.D., Assistant Dean

* Mailing Address: Summer Session Office
2500 Dole Street, Room 101
University of Hawaii
Honolulu, Hawaii 96822
### Resident Summer Faculty

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<td>Ph.D. (Washington), Professor of Geology</td>
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<tr>
<td>Abdu, Assibi, Ph.D.</td>
<td>(California at Los Angeles), Assistant Professor of Geology</td>
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<td>Ackerman, Charles D.</td>
<td>Ph.D. (Harvard), Associate Professor of Sociology</td>
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<td>Adkins, Dorothy C.</td>
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<td>Akbretom, Carl, M.A.</td>
<td>(Wisconsin), Instructor in English</td>
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<td>Akita, George, Ph.D.</td>
<td>(Harvard), Professor of History</td>
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<td>Alexander, Sumitra, M.A.</td>
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<td>Allen, Richard D.</td>
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<tr>
<td>Anderson, George, Ph.D.</td>
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<td>(Hanayagi School of Dancing of Japan), Lecturer in Music</td>
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<td>(Worcester State College in Massachusetts), Acting Assistant Professor of Education</td>
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<td>Beehler, Edward D., Jr., Ph.D.</td>
<td>(California at Berkeley), Associate Professor of History</td>
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Canary, Robert, Ph.D. (Chicago), Associate Professor of English
Cannon, Glenn, B.A. (Temple), Assistant Professor of Drama and Theatre
Carlson, John G., Ph.D. (Minnesota), Assistant Professor of Psychology
Carr, Albert B., Jr., Ed.D. (Columbia), Professor of Education
Carroll, W. Dennis, Ph.D. (Northwestern), Assistant Professor of Drama and Theatre
Carter, Steven, M.A. (Arizona), Instructor in English
Chandler, David, M.A. (McMaster), Assistant Professor of Sociology
Chang, Chung-yuan, Ph.D. (Columbia), Professor of Philosophy
Chau, Laurence, Ph.D. (Wisconsin), Assistant Professor of Economics
Chee, Cynthia, B.S. (Hawaii), Lecturer in Foods and Nutrition
Cheng, C. K., Ph.D. (Washington), Professor of Sociology
Cheng, Chung-ying, Ph.D. (Harvard), Associate Professor of Philosophy
Cheng, Hui-chien, B.A. (Peking), Instructor in Chinese
Cheng, Robert, Ph.D. (Indiana), Assistant Professor of Chinese
Ching, Mary L., M.S. (Ohio State), Assistant Professor of Food Service Administration
Chinn, Dian-wen, B.A. (Taiwan Normal), Instructor in Chinese
Chui, Edward F., Ph.D. (Iowa), Professor of Health & Physical Education
Clark, Richard H., M.A. (Michigan), Assistant Professor of Mathematics
Clepton, Robert W., Ph.D. (Northwestern), Emeritus Senior Professor of Education
Colby, Robert, Ph.D. (Kansas), Associate Professor of Mathematics
Collier, Roy W., M.A. (University of the Pacific), Assistant Professor of English as a Second Language
Comitti, Salvatore, Ph.D. (Washington), Associate Professor of Economics
Congdon, Charles F., M.B.A. (Columbia), Assistant Professor of Statistics
Connors, James J., Ph.D. (Yale), Assistant Professor of History
Coraggio, Peter, M.S. (Juilliard School of Music), Assistant Professor of Music
Cowan, Sylvia R., B.A. (LaGrange College), Graduate Assistant in English as a Second Language
Coving, Cedric B., Ph.D. (Wisconsin), Professor of History
Crawford, S. Cromwell, D.D. (Pacific School of Religion), Assistant Professor of Religion
Creed, Walter, Ph.D. (Pennsylvania), Assistant Professor of English
Crossley, John F., Ed.D. (California at Los Angeles), Professor of Education
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Ward, Jack H., M.A. (Hawaii), Acting Assistant Professor of Linguistics
Wargo, Robert J. J., M.A. (Michigan), Acting Assistant Professor of Philosophy
Warsh, Louis P., M.A. (California at Berkeley), Assistant Professor of History
Weinbaum, Carl M., Ph.D. (New York), Associate Professor of Mathematics
Welden, Terry A., Ph.D. (Michigan), Associate Professor of Speech Communication
Wellein, Lawrence, Ph.D. (Washington), Associate Professor of English
Wenkam, Nao, M.S. (Chicago), Assistant Professor of Foods and Nutrition
Werner, Ralph, M.A. (San Francisco State), Instructor in English
White, Russell E., B.A. (Portland State), Lecturer in Music
Whitman, Nancy C., Ph.D. (Illinois), Associate Professor of Education
Whitman, Randal, Ph.D. (Pennsylvania), Assistant Professor of English as a Second Language
Whitesell, Philip A., M.A.T. (Indiana), Acting Assistant Professor of Education
Wig, Jeanne, B.F.A. (Hawaii), Lecturer in Art
Wiley, William J., M.A. (Hawaii), Lecturer in Education
Williams, Jean, Lecturer in Art
Williamson, Jack, Ph.D. (Wisconsin), Assistant Professor of Mathematics
Wilson, James, Ed.S. (George Peabody College for Teachers), Assistant Professor of English as a Second Language
Winnie, John A., B.A. (New York State, Albany), Acting Assistant Professor of Philosophy
Winters, Lee, Ph.D. (California at Berkeley), Associate Professor of English
Winters, Lily C., M.A. (Berkeley), Associate Professor of Chinese
Wisniosky, John, M.F.A. (Illinois), Assistant Professor of Art
Wolstencroft, Ramon, Ph.D. (St. John's College, Cambridge), Associate Professor of Physics
Wood, James, Ph.D. (Virginia), Assistant Professor of Mathematics
Woods, Susanne, Ph.D. (Columbia), Assistant Professor of English
Woolard, George P., Ph.D. (Princeton), Professor of Geophysics
Worthley, Reginald, Ph.D. (Kansas State), Assistant Professor of Business Economics and Statistics
Wright, Lloyd, Ph.D. (Harvard), Assistant Professor of English
Wulff, Louise, M.S. (Hawaii), Instructor in Medical Technology
Yamada, Chie, Natori Kato-bushi Obie-bushi (Ichigenkin, Tokyo), Lecturer in Music
Yamada, June K., M.A. (Hawaii), Instructor in Speech-Communication
Yamamoto, Kenneth, Ed.M. (Hawaii), Lecturer in Education
Yamamura, Douglas S., Ph.D. (Washington), Professor of Sociology

Visiting Summer Faculty

Berday, George Z. F., Ph.D., Professor of Education, Columbia University
Bevington, David Martin, Ph.D., Professor of English, University of Chicago
Brodie, Donald, Ph.D., Assistant Professor of Sociology, Dalhousie University
Brookfield, Harold C., Ph.D., Professor of Geography, Pennsylvania State University
Cofer, Charles N., Ph.D., Professor of Psychology, Pennsylvania State University
Coughlin, Violet L., D.L.S., Professor of Library Studies, McGill University, Canada
de Casparis, J. G., Ph.D., Professor of History, University of London, England
Easley, John A., Ph.D., Professor of Science, University of Illinois
Endo, Calvin M., M.A., Acting Assistant Professor of Sociology, University of Oregon
Fernando, Quintus, Ph.D., Professor of Chemistry, University of Arizona
Fielding, Gordon J., Ph.D., Associate Professor of Geography, University of California at Irvine
Fischer, Louis, Ph.D., Professor of Education, San Fernando Valley State College
Fisher, John C., Ed.D., Professor of English, State University of New York
Franke, Wolfgang, Ph.D., Professor of History, Nanyang University, Singapore
Gillespie, Margaret C., Ed.D., Associate Professor of Education, Marquette University
Gray, David E., Administrative Vice President, California State College at Long Beach
Habenstein, Robert, Ph.D., Professor of Sociology, University of Missouri

Yamasaki, Norman B.F.A. (California College of Arts & Crafts), Lecturer in Art
Yamashita, Pearl N., M.A. (Iowa), Assistant Professor of Education
Yamaura, Yoichi, B.A. (Chuo University), Instructor in Japanese
Yanagisako, Alvin Y., M.A. (Hawaii), Instructor in Sociology
Yeh, Yeong-her, Ph.D. (Minnesota), Associate Professor of Economics
Yeh, Rui Zong, Ph.D. (Princeton), Associate Professor of Mathematics
Young, H. Y., M.S. (Hawaii), Associate Professor of Agronomy
Young, John, Ph.D. (Johns Hopkins), Professor of Japanese
Young, Kelvin K. K., M.Ed. (Hawaii), Instructor in Education
Yucker, Julius, Ed.D. (Denver), Professor of Education
Yung, Chia-yee, B.A. (Peking), Instructor in Chinese
Yung, Chih-sheng, B.A. (North Eastern University), Lecturer in Chinese
Zane, Lawrence, Ed.D. (Maryland), Lecturer in Education

Hall, J. Tillman, Ed.D., Chairman and Professor of Physical Education, University of Southern California
Hammond, Phillip, Ph.D., Associate Professor of Sociology, University of California at Berkeley
Harding, Forrest E., M.A., Assistant Professor of Marketing, Arizona State University
Hebert, John A., Ph.D., Assistant Professor of Psychology, Colorado State University
Herman, Gabor, Ph.D., Assistant Professor of Information Sciences, State University of New York at Buffalo
Hill, Mary M., Ph.D., Nutritionist, U.S. Department of Agriculture, Maryland
Hou, Francis, Ph.D., Professor of Anthropology, Northwestern University
Huang, Chi-chou, B.A., Associate Professor of Chinese, North China University
Jackson, W. Turrentine, Ph.D., Professor of History, University of California at Davis
Jacobs, Paul, B.A., Professor in Graduate School of Journalism, University of California at Berkeley
Johnson, Francis, Ph.D., Professor of English, University of Papua and New Guinea
Johnson, G. Orville, Professor of Education and Chairman of Faculty for Exceptional Children, Ohio State University
Kitano, Harry, Ph.D., Associate Professor of Sociology, University of California at Los Angeles
Keen, Samuel M., Ph.D., Professor of Religion, Louisville Presbyterian Seminary
Kobayashi, Bunji, Ph.D., Professor of Architecture, Nihon University
Lind, Ibe D., Ph.D., Professor of English, New York University
Lombardi, John, Ph.D., Professor of Education, North Central Association of Schools & Colleges, Los Angeles, California
Luna, Telesforo W., Jr., Ph.D., Associate Professor of Geography, University of the Philippines
VISITING SUMMER FACULTY

McDougall, William P., Ed.D., Professor of Education, Washington State University
McElrath, Dennis, Ph.D., Associate Professor of Sociology, University of California at Santa Cruz
Morowitz, Harold, Ph.D., Professor of Biophysics, Yale University
Morris, Bruce R., Ph.D., Professor of Economics, University of Massachusetts
Neubauer, Deane E., Ph.D., Associate Professor of Political Science, University of California at Irvine
Nygaard, John E., Ph.D., Professor of Psychology, California State College at Long Beach
Obichere, Beniface I., Ph.D., Associate Professor of History, University of California at Los Angeles
Petitt, Dorothy, Ph.D., Professor of English, San Francisco State College
Rodig, Oscar, Ph.D., Associate Professor of Chemistry, University of Virginia
Russell, Robert D., Ed.D., Associate Professor of Health Education, Southern Illinois University
Ryan, Ione J., Ed.D., Associate Professor of Education, East Carolina College
Sacksteder, William, Ph.D., Professor of Philosophy, University of Colorado
Samuels, Fred, Ph.D., Assistant Professor of Sociology, University of New Hampshire
Sarson, Irwin G., Ph.D., Professor of Psychology, University of Washington
Smith, Leon E., Ed.D., Professor of Education, University of Iowa
Spade, John, M.A., Associate Professor of English, University of Guam
Stevenson, Harold W., Ph.D., Professor of Psychology, University of Minnesota
Strasser, Marland K., Ed.D., Professor of Safety and Driver Education, San Jose State College
Stryker, William, Ph.D., Professor of English, San Fernando Valley State College
Turner, Darwin T., Ph.D., Professor of English, A & T State University
Varley, H. Paul, Ph.D., Associate Professor of History, University of Columbia
Vinakke, W. Edward, Ph.D., Professor of Psychology, State University of New York at Buffalo
Walden, Robert, Ph.D., Professor of Accounting, Indiana University
Walker, Jerry, Ed.D., Associate Professor of English, University of Illinois
Walton, Gary, Ph.D., Associate Professor of Economics, University of Washington
Willett, Basil, M.A., Vice-Principal, Woodside School, San Jose, California
Williamson, William L., Ph.D., Professor of Library Studies, University of Wisconsin
Wilson, Graham C., Ph.D., Professor of Education, San Francisco State College
Winch, Robert, Ph.D., Professor of Sociology, Northwestern University
Yao, Hsin-nung, B.A., Professor of Chinese, Soochow University
The University of Hawaii was founded in 1907 as the land-grant college for the Territory of Hawaii, and became a state university when Hawaii joined the Union as the fiftieth state in 1959. Its main campus is located in the Manoa Valley section of Honolulu, the capital of the state. The colleges include: Arts and Sciences, Business Administration, Education, Engineering, Health Sciences and Social Welfare (including schools of Medicine, Nursing, Public Health, and Social Work), and Tropical Agriculture. There are, also, a second campus at Hilo, a Division of Continuing Education and Community Service, and a statewide system of two-year community colleges. The Graduate Division assumes the major role in the organization and development of graduate programs, including a graduate school of Library Studies. The master's degree is offered in 66 fields and the doctorate in 32 fields. The academic year consists of two 17-week semesters, a 12-week summer session offering two 6-week terms, and a 2-week interim session between semesters.

The University of Hawaii is accredited by the Western Association of Schools and Colleges. Its classes are open to all academically qualified men and women. It has chapters of national honor societies such as Phi Beta Kappa, Phi Kappa Phi, Sigma Xi, Pi Gamma Mu, Phi Delta Kappa, Sigma Pi Sigma, Omicron Delta Kappa, Chi Epsilon, Delta Sigma Rho, Eta Kappa Nu, Phi Eta Sigma, Delta Phi Alpha, Pi Delta Phi, Mortar Board, Alpha Lambda Delta, Pi Lambda Theta, and Beta Phi Mu.

ADMISSION. Applicants who fit any one of the following categories need not apply for admission to the summer session ahead of time, but will be required to complete the summer Self Certification Form during registration:

1. Graduate of an accredited college or university.
2. Student currently in good standing at an accredited college or university.
3. Student who was in good standing at the last accredited college or university attended.
4. Student who was placed on scholastic suspension or was dismissed after the spring semester of 1970 from the University of Hawaii.
5. Student on scholastic probation, but eligible for continued registration at an accredited college or university.
6. Student who has never attended college or university before, but who has been accepted for admission at an accredited college or university.
7. Student currently in good standing at a local community college and enrolled in the transfer curriculum.

Applicants who do not fit any of the categories listed above are required to submit official transcripts along with a regular Admissions Form by May 1, 1970 to the Office of Admissions and Records, 125 Bachman Hall, 2444 Dole Street, University of Hawaii, Honolulu, Hawaii 96822. Write to the Office of Admissions and Records for Admission Forms.

Admission to the summer session does not imply admission to the fall or spring semesters.
VISITOR'S TICKETS. Since the summer session provides an opportunity to hear classroom lectures given by many distinguished professors in various fields, visitor's tickets are available to persons who want to visit different lecture classes without examination or credit. These tickets may be purchased at the Treasury Office in Bachman Hall for $40.00 per summer term. The visitor's ticket must be shown upon demand and entitles the bearer to attend any classroom lecture other than institute courses, on a seat available basis. Visitors are not entitled to participate in classroom discussions, examinations, or other class activities, and are not permitted in seminars, laboratories, foreign language, studio, and activity courses.

VETERANS. The University of Hawaii is authorized to enroll veterans under Public Laws 358, 634, 815, and 90-631. Students registering for the first time under these laws should bring with them their Certificate of Eligibility for Education and Training. Veterans enrolling under P.L. 815 must present their "authorization and certification of entrance or re-entrance into training" form 21, E-1905, at the time of registration.

FOREIGN STUDENTS. Foreign students who fit any one of the 7 categories listed on preceding page under "Admission" need not apply beforehand. Applicants who do not fit any one of these categories are required to submit official transcripts of all secondary and post-secondary academic work taken along with Admissions Form 5F by April 1, 1970 to the Office of Admissions and Records, 125 Bachman Hall, 2444 Dole St., Honolulu, Hawaii 96822.

Any foreign student who wishes to enroll in the University of Hawaii summer session only should come on a visitor's visa rather than a student's visa. The University will not issue I-20 certificates to those who enroll in the summer session only. Students will be permitted to enroll in the English Language Institute if space is available. Students who wish to enrol in the English Language Institute must have a certain qualifying level in the placement examination. This examination will be administered on campus on March 14, April 18, May 23, and June 12. For further information contact the English Language Institute, 1890 East-West Road, University of Hawaii, Honolulu, Hawaii 96822.

STUDENT PROGRAMS. Students are limited to a maximum program of 8 credit hours in each 6-week summer term. Additional hours may be carried with approval of the appropriate college dean or the Dean of the Graduate Division or in the case of transient students (here for the summer only), the Dean of Summer Session. Evening courses taken concurrently in the Division of Continuing Education are to be included in the computation of total credits carried. The Graduate Division Bulletin lists courses acceptable for graduate credit.

DEAN'S OFFICES. The office of the deans in charge of student services are located as follows:

- College of Arts and Sciences, Bachman Annex 10
- College of Business Administration, Hawaii 109
- School of Travel Industry Management, Lunalilo Freeway No. 1
- College of Education, Wist Annex-2 128 E
- College of Engineering, Keller 119
- College of Health Sciences and Social Welfare,
  Leahi Hospital
  School of Medicine, Snyder 410
  School of Nursing, Webster 415
  School of Public Health, Spalding 252
  School of Social Work, Makai Campus 8
- College of Tropical Agriculture, Gilmore 114
- Division of Continuing Education and Community Service, PRI 105
- Graduate Division, Spalding 354
- Library Studies, Sinclair Library 102
- Summer Session, PRI 101
REGISTRATION FOR FIRST TERM

I. Students currently enrolled at the University of Hawaii and non-student residents of Hawaii.

A. Distribution of Packets
Time, date, and place will be announced in the Honolulu Advertiser and Star-Bulletin.

B. Enrollment. Students will enter Klum Gym to pick up IBM course cards and pay their fees at or after the hour indicated in the following time schedule (for last names):

<table>
<thead>
<tr>
<th>Wednesday, June 10</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>I, J, &amp; G</td>
<td>8:00 a.m.</td>
<td>A-B 1:00 p.m.</td>
</tr>
<tr>
<td>H</td>
<td>9:00 a.m.</td>
<td>L 2:00 p.m.</td>
</tr>
<tr>
<td>D, E, &amp; F</td>
<td>10:00 a.m.</td>
<td>T, U, &amp; V 3:00 p.m.</td>
</tr>
<tr>
<td>C</td>
<td>11:00 a.m.</td>
<td>Sa-Sh 4:00 p.m.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Friday, June 12</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Si-Sz</td>
<td>8:00 a.m.</td>
<td>Mf-Mz 1:00 p.m.</td>
</tr>
<tr>
<td>P, Q, &amp; R</td>
<td>9:00 a.m.</td>
<td>W, X, Y, &amp; Z 2:00 p.m.</td>
</tr>
<tr>
<td>N-O</td>
<td>10:00 a.m.</td>
<td>Ka-Kh 3:00 p.m.</td>
</tr>
<tr>
<td>Ma-Me</td>
<td>11:00 a.m.</td>
<td>Ki-Kz 4:00 p.m.</td>
</tr>
</tbody>
</table>

DO NOT REPORT AHEAD OF SCHEDULE.
ALPHABETICAL AND TIME SEQUENCES WILL BE STRICTLY ENFORCED.
GYM DOORS WILL BE CLOSED BETWEEN 12 NOON AND 1 P.M. AND AT 4:30 P.M.

III. Registration for Off-Campus Courses. Individuals taking off-campus courses during any period of the first summer term will register during the regular scheduled dates for registration.

1. Registration for off-campus courses on Oahu will be held on the University of Hawaii Manoa Campus on June 10, 12, or 15.

2. Registration for courses in the Hawaii District will be held on the University of Hawaii Hilo Campus on June 15.

3. Registration for courses in the Maui District will be held at Kahului School on Tuesday, June 16, 8:30 a.m. to 1:00 p.m.

4. Registration for courses in the Kauai District will be held at Wilcox School on Tuesday, June 16, 8:30 a.m. to 1:00 p.m.

REGISTRATION FOR SECOND TERM

Registration for the second term will take place on Monday, July 27. Students should report to BILGER HALL a half hour before they are scheduled to enter HEMENWAY HALL as shown below.

Students will enter HEMENWAY HALL to pick up IBM course cards and pay their fees at or after the hour indicated in the following time schedule (for last names):

<table>
<thead>
<tr>
<th>Monday, June 27</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>O-R</td>
<td>8:00 a.m.</td>
<td>C-E 1:00 p.m.</td>
</tr>
<tr>
<td>S-V</td>
<td>9:00 a.m.</td>
<td>F-H 2:00 p.m.</td>
</tr>
<tr>
<td>W-Z</td>
<td>10:00 a.m.</td>
<td>I-K 3:00 p.m.</td>
</tr>
<tr>
<td>A-B</td>
<td>11:00 a.m.</td>
<td>L-N 4:00 p.m.</td>
</tr>
</tbody>
</table>

DO NOT REPORT AHEAD OF SCHEDULE.
ALPHABETICAL AND TIME SEQUENCES WILL BE STRICTLY ENFORCED.
HEMENWAY HALL WILL BE CLOSED BETWEEN 12 NOON AND 1 P.M. AND AT 4:30 P.M.

LATE REGISTRATION. Late registration will be permitted during the first four days of instruction.
CHANGE OF REGISTRATION. Changes in registration will be permitted during the second, third, and fourth day of instruction in a course. Change of program forms may be obtained at the deans' offices.

For change fees and refunds, see under "Refunds" in next column.

RESERVATION OF CLASS SPACE. Students often request that space be reserved for them in certain courses but the University of Hawaii cannot accommodate such requests. Students are advised, therefore, to have alternate courses in mind as they plan their summer program.

STUDENT NUMBERS. The University uses Social Security numbers for record keeping, therefore, please be prepared to present Social Security cards during registration. Students who do not have numbers, those who have lost their cards, and those who have had name changes after getting their cards should arrange with their Social Security offices for assignment of numbers prior to registration. Students from foreign countries may make application for Social Security numbers at the Social Security Office, 1181 Alakea Street, Honolulu.

ZIP CODES. The University cooperates with the United States Post Office Department in recording zip codes. All registered students should use their zip codes for permanent and local addresses.

TUITION AND FEES. The summer session receives no legislative appropriation and is expected to operate within the limits of its own revenues.

Tuition is $20.00 per credit hour for residents and $30.00 per credit hour for nonresidents. The tuition is the same whether the course is audited or taken for credit. There is no separate registration fee; and no laboratory or other course fee, except for applied music, institutes, and other special programs as noted in the catalog. All zero (0) credit courses will be charged $20.00 per equivalent credit hour.

An activity fee of $2.50 is charged during the first 6-week term.

Fees must be paid in full at the time of submission of registration cards. A student's registration is not complete until all fees have been paid.

A late registration fee of $5.00 is charged beginning the day instruction starts.

There is a charge of $2.00 for any change in program after registration unless waived for good cause by the Dean of Summer Session.

Library fines and others, such as for violating campus parking regulations, must be paid promptly. Students are expected to learn the campus driving, parking, and library rules.

REFUNDS. A student in good standing who withdraws from a course may obtain the following refunds, upon presenting his fee slip receipt:

75 percent, until 4 p.m. on June 18 (first term); or until 4 p.m. on July 30 (second term).

37½ percent thereafter, until 4 p.m. on June 23 (first term); or until 4 p.m. on August 4 (second term).

There will be no refunds after June 23 in the first term and after August 4 in the second term. No part of the $40.00 visitor's ticket, the student activity fee, or laboratory or course fees, is refundable. A 100 percent refund is granted only if the University is responsible for a change in program, and if such refund is approved by the Dean of Summer Session.

PERSONAL CHECKS. Traveler's checks, cashier's checks, and money orders are accepted. Personal checks will be accepted for payment of summer session fees only when the amount of the check does not exceed the amount due from the student. If the check is not honored by the bank concerned the student will be assessed an additional charge of $10.00.

GRADES AND EXAMINATIONS. Final examinations are given in all undergraduate courses except directed reading, research and seminar courses. The final examination is 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. Students must complete all work and examinations required by their instructors, attend classes regularly until the end of each course, and hand in all assignments by that time. No part of the work may be continued beyond the end of the term.

The grading system is the same as in the fall and spring semesters: A, B, C, D, F, P (pass), W (withdrawal, not failing), and I (incomplete). The grade I is not normally used in summer session, but if it is, the grade will be changed to one of the others if the student's work is not completed prior to the Thanksgiving recess.

Student copies of summer grades are sent to the permanent address shown on the Personal History Form within a week after the end of each six-week term.

WITHDRAWALS. To withdraw from a course a student must obtain a withdrawal form and have it properly filled with all necessary signatures. Withdrawal forms are available at department offices, the college offices of student services, and the Summer Session office. The effective date of withdrawal is the date recorded by the Treasury Office in Bachman Hall. A student who stops
attending a course without going through the foregoing procedure will receive an F (failure) for the course.

During the first five days of instruction in any term a formal withdrawal is marked W on the student's record. Thereafter, and prior to the last five days of instruction in the term, a formal withdrawal is marked W if the student's work was of passing grade. No withdrawals from courses are permitted during the last five days of instruction.

To withdraw completely from the summer session, a student must obtain a Complete Withdrawal form available at the Records Office, and fulfill all its requirements.

TRANSCRIPTS. A student who requests the Records Office to send a transcript of his work to another institution is not required to pay for the first copy but is charged $1.00 for each subsequent copy.

TO DOE TEACHERS OF HAWAII. Transcripts or grade slips of work done during the summer to qualify for higher salary classification will be accepted by the Department of Education up to October 31, 1970. Salary adjustments made as a result of such work will be effective as of September 1.

LIBRARY PRIVILEGES. Students will be issued University identification cards which also serve as library cards. The fee slip is acceptable in lieu of the identification card. The main book and periodical collections of the University of Hawaii Library are housed in the Hamilton Library, located on the Mall. The Sinclair Undergraduate Library, located at University Avenue and Campus Road, has a selected collection of materials for the undergraduate. In addition it contains the Reserve Reading Room, the Listening Center which provides for dial access retrieval of course-related information, and two research collections, the Government Documents and Hawaiian & Pacific Collections. Guides to both libraries are available at the library information desks. Assistance in locating needed materials is provided by reference librarians at both Sinclair and Hamilton Libraries.

Summer Session Notes

ENROLLMENT FIGURES. The University of Hawaii summer session is one of the largest in the country. In 1969 a total of 20,410 students enrolled registering for 85,011 credits. Some 76 percent of the students were from Hawaii, 19 percent from the mainland, and 5 percent from other countries or areas; women students outnumbered the men by about 57 percent to 43 percent; and some 54 percent of the summer students were candidates for University of Hawaii degrees or diplomas.

COURSES ON ASIA AND THE PACIFIC: In addition to standard courses comparable to those given at other American universities, the 1970 summer session offers many distinctive courses such as the following:
- American Studies: Asian Influences in American Civilization.
- Anthropology: Regional Cultures of Asia, South Asia, Ryukyus.
- Art: Arts of the Pacific, South Asia.
- Asian and Pacific Languages: Chinese; Hawaiian; Indonesian; Japanese; Korean; Tagalog; Thai; Vietnamese.
- Asian Studies: Summer Institute; Study Tour of Asia.
- Drama and Theatre: Japanese Theatre.
- Education: Methods and Materials for the Study of Hawaii; History of Education in Hawaii; Dances of Hawaii; Zen and Education; Comparative Education: Asia.
- English: Literature of the Pacific.
- European Language: The French in the Pacific.
- Fashion Design, Textiles and Merchandising: Costumes of South and Southeast Asia.
- Food and Nutritional Sciences: Foods of the Pacific.
Geology: Japan; South Asia; Southeast Asia; Pacific; Philippines.
Geosciences: Geology of the Hawaiian Islands.
History: South Asia; China; Japan; Hawaiian Islands; Southeast Asia; Pacific.
Library Studies: Asian Reference Sources.
Philosophy: Chinese.
Political Science: Government and Politics of South and Southeast Asia.
Religion: Asian Religions and Social Changes.
Sociology: People and Institutions of Japan.

Institute on Asian Studies. June 15-July 24. The Twelfth Summer Institute on Asian Studies will be directed by Dr. Ulrich H. R. Mammitzsch, Assistant Professor of History, University of Hawaii. The program carries 6 graduate credits and is designed primarily for secondary school and junior college teachers, administrators and librarians, but it is open to others as well.

The institute will offer lectures, discussions, workshops, and films on East, Southeast, and South Asia; special evening programs (Asian music, dance and the arts); tours of Asian temples; and other cultural activities.

The East-West Center Institute for Student Intercultural Exchange is offering tuition and partial travel grants to secondary school and junior college teachers, curriculum coordinators, administrators, and librarians selected for participation in this institute.

For application forms write to: Summer Session Office, 2500 Dole Street, Room 101, University of Hawaii, Honolulu, Hawaii 96822.

Summer Work-Study Program in Mental Health and Related Areas. June 15-July 24. For students in any field of study in a college or university who would like to explore career possibilities in mental health or related areas, or who would like to gain a better understanding of community and institutional efforts in these areas. Sponsored by the Western Interstate Commission on Higher Education, the program includes field experience at institutions for the mentally ill, mentally retarded, and delinquent, and other community service agencies, as well as the academic work, tutorial conferences, seminars, and study projects. Six undergraduate credits (Ed EF 200) are offered. A stipend of $450.00 is awarded to selected students. Inquiries should be addressed to the director of the work-study program: Dr. Dean K. McIntosh, Department of Educational Psychology, University of Hawaii, 1776 University Avenue, Honolulu, Hawaii 96822.

Summer Institute in Mathematics for Teachers of Mathematics in Secondary Schools of the Trust Territory of the Pacific Islands. June 15-July 24. Kolonia, Ponape District, Trust Territory of the Pacific Islands. The main purpose of this institute, which is supported by funds from the National Science Foundation, is to improve instruction in mathematics in the secondary schools of the Trust Territory of the Pacific Islands by strengthening the background of the secondary school teachers both in content and methods of presentation. Enrollment will be limited to thirty teachers and to be eligible for consideration an applicant must be currently teaching at least one full course in mathematics in a public, private or parochial secondary school in the Trust Territory of the Pacific Islands and intending to continue teaching in the Trust Territory of the Pacific Islands for at least one more year. Director of the Institute will be Miss Dorothy I. Koehler, Department of Mathematics, 2555 The Mall, University of Hawaii, Honolulu, Hawaii 96822.

Summer Institute in Science and Mathematics for Teachers of U.S. Children in the Far East. June 15-July 24. This institute is supported by the National Science Foundation and will be held at Chofu, Japan. The program is designed to improve the quality of science and mathematics instruction in those elementary and secondary schools in the Far East that enroll an appreciable number of American children, by providing some of their teachers with the opportunity to increase their subject-matter competence in mathematics, biological sciences, and physical sciences. Enrollment is limited to persons who are now teaching in eligible schools in the Far East, or who will be teaching there in the fall of 1970. Director of the Institute will be Dr. Charles H. Lamoureux, Department of Botany, University of Hawaii, Honolulu, Hawaii 96822.

Workshop in Aerospace Education. June 15-July 17. (5 weeks). Introduction to aerospace science and technology and the social, economic, and political implications; designed for K-12 teachers, administrators, and curriculum specialists; background in science not required. Enrollment is limited and advanced registration by May 1 is required. Inquiries should be directed to the director, Dr. Donald G. Aten, College of Education, University of Hawaii, 1776 University Avenue, Honolulu, Hawaii 96822.

Institute on Foods of the Pacific. June 15-July 24. The food habits, customs, and cookery of China, Japan, Korea, the Philippines, and Hawaii (see FN 377). Inquiries should be addressed to: Assistant Dean Hazel V. Kraemer, Miller Hall 109, University of Hawaii, Honolulu, Hawaii 96822.
Study Tour of Europe (Returning via Asia). July 6-August 23. A study tour of Europe including the U.S.S.R. and returning round the world via Asia, will be led by Professor Mitsuo Aoki, Chairman of the Department of Religion. After a week of orientation on the campus, the group will leave for Europe on July 11 via Los Angeles. The tour will include London, Paris, Frankfurt, Worms, Heidelberg, Lindau, Innsbruck, Brenner Pass, Venice, Rome, Florence, Pisa, Lugano, St. Gotthard, Lucerne, Zurich, Amsterdam, Dusseldorf, Berlin, Leningrad, Moscow, New Delhi, Agra, Bangkok, Hong Kong, Osaka, and Tokyo. Travel arrangements will be handled by Mrs. Ruth Rittmeister, manager of International Travel Service of Honolulu. Inquiries should be addressed to: Professor Mitsuo Aoki, George Hall 343, University of Hawaii, Honolulu, Hawaii 96822.

Study Tour of Asia. June 29-August 8. A study tour of the Far East and Southeast Asia will be led by Professor D. W.Y. Kwok, Director of Asian Studies. After a week of lectures and programs on campus, the group will leave Honolulu on July 6. The itinerary will include Tokyo, Nikko, Kamakura, Hakone, Atami, Nagoya, Tohoku, Kashikojima, Kyoto, Nara, Osaka, Okinawa, Taipei, Manila, Singapore, Kuala Lumpur, Bangkok, Hong Kong, and Macao. Travel arrangements will be handled by Mrs. Ruth Rittmeister, manager of International Travel Service of Honolulu. Inquiries should be addressed to: Professor D.W.Y. Kwok, Moore Hall 310, University of Hawaii, Honolulu, Hawaii 96822.

Art and Architecture Study Tour. June 20-July 9. This tour to Japan will be conducted under the direction of Professor A. Bruce Etherington, Chairman of the Department of Architecture and Professor Duane Preble. The tour is restricted to students currently enrolled at the University of Hawaii. Travel arrangements will be handled by Ala World Travel. For particulars, see: Professor A. Bruce Etherington, Gartley Annex 1, University of Hawaii.

Matson Educational Cruises. Two courses, one on The Sea, by Dr. Albert L. Tester, and the other on Geography of the Pacific Ocean Area by Mr. Abraham Piñaia will be offered aboard the S.S. Monterey, leaving San Francisco on July 7 for a cruise of the South Pacific. The ship will visit Los Angeles, Bora Bora, Papeete, Rarotonga, Auckland, Sydney, Noumea, Suva, Niuafo'ou, Pago Pago, and Honolulu, before returning to San Francisco.

A course on Geology and Natural Resources of Alaska will be offered by Dr. George P. Woollard on the S.S. Mariposa leaving San Francisco for Alaska on August 18 and returning on August 31.

For particulars, write to: Summer Session Office, 2500 Dole Street, Room 101, University of Hawaii, Honolulu, Hawaii 96822; or to the N.E.A. Division of Educational Travel, 1201 16th Street, N.W., Washington, D.C. 20036; or to the Division of Educational Services, Matson Lines, 110 Mission Street, San Francisco, California 94105.

Extracurricular Activities

UNIVERSITY PROGRAM. During the first 6-week term, an extensive program of educational and recreational events is sponsored by the Summer Session Activities Office. The program includes Tuesday evening lectures, the Summer Theatre, guided tours on and off campus, and non-credit classes and other programs at Hemenway Hall and other campus sites.

Details of the summer program for 1970 will be printed in Summer Salute 1970, a special publication distributed at the beginning of the first summer term.

ACTIVITY CARDS. Students who have paid their fees may use their fee slips as summer session activity cards. The fee slip entitles the bearer to attend or participate in various extracurricular events sponsored by the Summer Session Office during the first 6-week term. For certain trips or activities an additional fee is charged to help defray the cost.

Summer session faculty members may purchase activity cards at the student price of $2.50 at the Summer Session Activities Office, Hemenway Hall 2nd floor. Spouses and children (late teenage or older) of these faculty members or of summer session students may purchase activity cards for $10.00, upon approval of the Director of Student Activities. Persons not fitting the foregoing categories are not eligible for the activity cards.

The activity card is not transferrable. Loss of one's
card must be reported immediately to the Business Office of the University. Illegal use of another's card is subject to disciplinary action.

HEMENWAY HALL. Hemenway Hall, the student union building, is available for use each morning, Monday through Friday. Its services include 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.

FESTIVAL OF THE ARTS OF THIS CENTURY. The thirteenth annual Festival of Arts of This Century will be presented concurrently with the summer session, June 15 to July 24. Sponsored by the University of Hawaii Summer Session and the University of Hawaii Foundation, the Festival is dedicated to the exchange of East-West contemporary arts in music, dance and visual arts and theatre.

SUMMER PLAYS. The University Summer Theatre will present plays and a dance concert in the John F. Kennedy Theatre. Summer session students may apply for participation in the productions; students wishing to receive academic credit for such participation may register for Theatre Workshop (Drama 250).

Reserved seat tickets will be available at the Kennedy Theatre box office Monday through Saturday from 9 a.m. to 1 p.m. during the six-week period (telephone 944-8746 or 944-8747); reservations are held until 1 p.m. the day before a performance. There will be a nominal charge for summer session students with fee slips. Admission for those without fee slips will be $2.50 for adults and $1.25 for students.

OF INTEREST TO VISITORS. Honolulu is a cosmopolitan metropolis of over 400,000 people representing nearly all parts of the world. The numerous shops offering exotic wares from everywhere, the lovely residential districts, and the beach areas with their sand, surfboards, and catamarans are of special interest to visitors. Then, there are the famed Bernice P. Bishop Museum, the Honolulu Academy of Arts, the Foster Park Botanical Gardens, the Pacific National Memorial Cemetery, the Queen Emma Museum, the Royal Mausoleum, and the only erstwhile royal palace on American soil, Iolani Palace; also Buddhist, Shinto, Confucian, and Taoist temples and shrines. There are dining facilities and restaurants of all types, many movie theaters, including drive-ins, five television and sixteen radio stations, free concerts by the municipal Royal Hawaiian Band, the extensive Honolulu Zoo, the Aquarium at Waikiki, and other attractions to suit diverse tastes. In the city's environs, around the island of Oahu, and on the neighboring islands of Kauai, Maui, Molokai, Lanai, and Hawaii, there is an endless succession of fascinating places to visit.
Housing Information

The student must be fully aware of several problem areas in making plans to attend the University of Hawaii.

First, finding suitable housing will be a major problem unless handled in advance of academic registration. Acceptance to the University does NOT assure one of housing. Housing in this community is scarce, difficult to find and expensive.

Second, there is only a limited number of residence hall facilities on campus. All assignments are made on a first-come, first-served basis by date of application received in the Student Housing Office. There are no facilities on campus for married students. The Student Housing Office keeps listings of available off-campus spaces but most of these are small units scattered throughout Honolulu. These units are limited and reserved usually a month or more in advance of a term. Remaining facilities are usually farther away from campus and very expensive.

The student is cautioned to be prepared to make temporary housing arrangements in hotels or other quarters, if possible in advance, and to bear in mind that rental rates can quickly use up personal funds. He must utilize all possible avenues of searching for housing including newspapers, rental agencies, personal or professional contacts in the community or other sources.

Inquiries concerning student housing should be directed to the Student Housing Office, Johnson Hall-A, 2555 Dole Street, Honolulu, Hawaii 96822.

ON CAMPUS. To be eligible for any University of Hawaii residence hall, a student must be registered for at least 3 hours of lecture courses for credit. Examples of courses which do NOT meet this requirement are courses audited, night courses, or applied courses (such as physical education, applied music, applied art, etc.), and most of the 1 credit courses offered by the University. If there is any doubt as to proposed courses meeting the requirement, check with the housing office at time of registration. A student who reduces his load during the session to less than 3 hours of lecture courses for credit or who withdraws or who simply stops attending classes becomes ineligible for further residency and forfeits rental fees. He must vacate the hall within 24 hours of such change of schedule. Application-contracts must be
ADDITIONAL INFORMATION

accompanied by the deposit before consideration for space reservation can be made. The contract is for room and board. Optional board program of breakfast-supper or breakfast-lunch-supper, Monday through Friday is offered.

Six-Week Contract

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<table>
<thead>
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<tbody>
<tr>
<td>Room</td>
<td>$135.00</td>
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<tr>
<td>Board (Breakfast-supper)</td>
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<tr>
<td>Room</td>
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</tr>
<tr>
<td>Board (Breakfast-lunch-supper)</td>
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<td>$229.50</td>
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University Housing Facilities Available:
Frear Hall: Accommodates 144 residents in double rooms.
Hale Kahawai: Accommodates 140 residents in double rooms.
John A. Johnson Hall, Building A: Accommodates 80 residents in double rooms.
John A. Johnson Hall, Building B: Accommodates 112 residents in double rooms.
Gateway House: Accommodates 104 residents each in two separate towers, double rooms.
Hale Laulima: Accommodates 140 residents in double rooms. Also, there are 14 single accommodations with room and board fee at $236.
Residence hall facilities are available only during the first 6-week term.

OFF CAMPUS. The rush for off-campus accommodations usually starts about three weeks prior to beginning of classes.

The Student Housing Office offers listings of rooms in private homes, a few apartments, and room and board jobs. These units are not inspected and negotiations with landlords are made directly by students.

Names of landlords are not available through the mail because of a rapid turnover in a tight housing market. Names of students on roommate request are not listed.

Non-University Housing. Atherton House, the international residence of Atherton Branch Y.M.C.A., is located across the street from the campus. The dormitory has singles, small doubles, large doubles, and triples for 80 to 90 students. Only men will be housed in the dormitory in the first term, but women may apply for the second term. Three completely furnished studio apartments are also available. For further information about the board and room package plan write to: The Director, Atherton Y.M.C.A., 1810 University Avenue, Honolulu, Hawaii 96822.

The Shinshu Kyokai Dormitory, at 1641 South Beretania Street, about a mile from campus, can accommodate some 95 students, both men and women. Room and board (breakfast-supper) is $219. For further information, write to the resident administrator Mrs. Yoshiko Tatsuguchi, 1631 S. Beretania Street, Honolulu, Hawaii 96814, or telephone 941-2033.

Additional Information

STUDENT HEALTH SERVICE. The Student Health Service is interested in assisting the student with his health problems while he is attending the University of Hawaii. Its medical care program is comparable to that of the general office practice of medicine. A dispensary provides physician and nursing care from 7:45 a.m. to 4:30 p.m., Monday through Friday; and from 9:00 a.m. to 11:00 a.m. on Saturdays. The infirmary can provide beds for medical care of minor illnesses on a 24-hour basis, 7 days a week, during the first summer term only.

A student may need to be referred to a private physician for medical care problems beyond the scope of the Health Service. It is therefore strongly advised that each student join a health insurance program to obtain supplemental medical and hospital coverage while he is on campus.

All regularly registered students of the University of Hawaii may continue to use the services of the Health Service if they have a completed University of Hawaii Health Form on file.

Summer session students who have special medical problems that require close followup by the Health Service should bring letters from their personal physicians specifying recommendations for their care. Allergy shots, for example, will not be given by the Health Service unless the student submits authorization and directions from his personal physician.
Medical Clearance for Health and Physical Education Course Requirements. Certain courses offered by the health and physical education department require medical clearance for admission (see course listings under Health and Physical Education). Regularly registered students of the University of Hawaii who have been given medical clearance by the Student Health Service during the current academic year may register for HPE courses during the summer session without further medical clearance. Students who are registered for the summer session only will be issued this medical clearance by the Health Service provided the following steps are taken:

1. The student must have a medical examination performed by his personal physician. Arrangements for this medical examination, including payment, must be made by the student.
2. The student must submit the result of the medical examination to the Health Service. The University of Hawaii health form for reporting the result of the medical examination may be obtained by writing to: Student Health Service, University of Hawaii, 1710 East-West Road, Honolulu, Hawaii 96822.
3. The Health Service will then study the medical examination report and issue the appropriate medical clearance.

STUDY TOURS TO HAWAII. Each year various travel agencies bring to Hawaii many hundreds of students whom they have enrolled as members of their study tour groups. However, NO TRAVEL AGENCY OR PERSON HAS EVER BEEN AUTHORIZED TO REPRESENT THE UNIVERSITY OF HAWAII IN RECRUITING STUDENTS FOR TOURS TO HAWAII. It should be understood, of course that the University of Hawaii welcomes all qualified students, whether they come by themselves or in organized groups, and that no special treatment is accorded anyone because of membership in a tour group.

These study tours to Hawaii should not be confused with certain overseas study tours that start from the University of Hawaii campus with a member of our resident faculty in charge; or the Educational Cruises operated by the Summer Session Office with the cooperation of the N.E.A. Division of Educational Travel and the Matson Navigation Company.

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 drivers' 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.

PARKING AND TRAFFIC. Students are expected to familiarize themselves with the University's parking and traffic rules and regulations established by the board of regents. These regulations, together with special instructions, may be obtained at several locations on campus including the Office of University Relations in Bache­man Hall, and the Auxiliary Services building. Ignorance of these rules and special instructions will not excuse a student from the payment of fines for violations.

Parking stickers will be sold near the swimming pool during registration and at the traffic desk in the Auxiliary Services building thereafter.

FINANCIAL AIDS. Opportunities for part-time employment during the summer are quite limited. Students should therefore plan to meet all of their summer session expenses without relying on part-time employment. Students from other states are advised that living costs in Hawaii are higher than in most mainland communities.

No scholarships are available during the summer session, except in certain institutes and special programs.

A limited amount of money is available for National Defense Student Loans only to qualified students who are completing work toward a University of Hawaii degree.

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. Canons of good taste are, of course, expected to be observed by all.

HILO CAMPUS SUMMER COURSES. The University of Hawaii Hilo Campus is on the island of Hawaii some 200 miles southeast of Honolulu. A select list of summer courses will be offered again, both for entering freshmen and other undergraduates and for teachers in service. Students planning to enroll in summer courses and requiring housing should contact the Office of Student Personnel, Hilo Campus, for information concerning available housing in the city of Hilo. Inquiries should be addressed to: Provost, University of Hawaii Hilo Campus, Hilo, Hawaii 96720.
COURSES OFFERED

The course numbering system used at the University of Hawaii is as follows:

1. Undergraduate courses 1 through 499
   A. Courses not applicable toward a bachelor's degree 1-99
   B. Courses applicable toward a bachelor's degree 100-499
   Initial or introductory courses; normally open to freshmen, 100-199
   Second-year courses in a sequence or development within a field of study, 200-299
   Third-year courses in sequence, or first courses in professional curricula normally taken by juniors, 300-399
   Most advanced undergraduate courses, 400-499

2. Post-baccalaureate courses 500 through 800
   A. Courses in continuing education not generally applicable toward degrees 500-599
   B. Courses applicable toward advanced degree 600-800
   Courses typically taken in first year of graduate study, or first in sequence, 600-699
   More advanced graduate courses, 700-799
   Thesis research, 800

The number of semester credit hours carried by each course is listed in parentheses immediately after the title of the course.

Most classes will be held according to the following schedules:

50-MINUTE CLASSES

7:45 - 8:35
9:10 - 10:00
10:10 - 11:00
11:35 - 12:25
1:35 - 2:25
2:35 - 3:25

75-MINUTE CLASSES

7:20 - 8:35
8:45 - 10:00
10:10 - 11:25
11:35 - 12:50
1:10 - 2:25
2:35 - 3:50
### AGRICULTURE, TROPICAL

**Agriculture (AG)**
- 399 Agricultural Practice (arr.)  
  S. Goto
- 399 Agricultural Thesis (arr.)  
  Staff

**Agricultural Economics (AEc)**
- 399 Directed Study (arr.)  
  Staff
  Limited to exceptional undergraduate students who are qualified to carry on advanced study. Pre: consent of instructor.
- 699 Directed Research (arr.)  
  Staff

**Agricultural Engineering (AE)**
- 699 Directed Research (arr.)  
  Staff

**Agronomy (Agron)**
- 651 Advanced Techniques in Plant and Soil Analysis (arr.)  
  H. Y. Young
- 699 Directed Research (arr.)  
  Staff
- 799 Directed Research (arr.)  
  Staff

**Animal Sciences (An Sc)**
- 341 Livestock Management (3)  
  Staff
  Assigned problems and practical experience in management of livestock; evaluating, feeding and housing beef cattle, poultry, swine. Required for animal science majors during summer between junior and senior years.
  Daily 7:00-12:00 Waialee Farm
- 699 Directed Research (arr.)  
  Staff
- 800 Thesis (arr.)  
  Staff

**Entomology (Ento)**
- 399 Directed Research (arr.)  
  Staff
  Limited to participants in the National Science Foundation Undergraduate Research Participation Program and to exceptional undergraduate students who are qualified to carry on research problems.
- 699 Directed Research (arr.)  
  Staff

**Food Science (Fd Sc)**
- 699 Directed Research (arr.)  
  Staff
- 799 Directed Research (arr.)  
  Staff

**Horticulture (Hort)**
- 399 Directed Study (arr.)  
  Staff
- 699 Directed Research (arr.)  
  Staff
- 800 Thesis Research (arr.)  
  Staff

**Plant Pathology (PPath)**
- 695 Clinical Plant Pathology (3)  
  A. P. Martinez
- 699 Directed Research (arr.)  
  Staff

**Soil Science (Soils)**
- 699 Directed Research (arr.)  
  Staff
- 799 Directed Research (arr.)  
  Staff

### AMERICAN STUDIES (Am St)

**201 Introduction to American Civilization (3)**  
R. Alcantara, J. McCutcheon
  The central concerns of contemporary American life and thought studied in the light of multidisciplinary perspectives.
  MW 8:45-10:00
  Lab (1) TThF 8:45-10:00 (3) TThF 11:35-12:50
  (2) TThF 8:45-10:00 (4) TThF 11:35-12:50

**295 The Culture of the American Indians (3)**  
R. Kennedy
  An examination of the American Indians from an historical and anthropological point of view with special reference to the music and dances of the cultures.
  Daily 7:20-8:35

**301 Man in Society (3)**  
N. Ferdon, F. Matson
  Some basic problems and processes of contemporary society, jointly examined by several social sciences. Pre: sophomore standing.
  MW 10:10-11:25
  Lab (1) TThF 10:10-11:25 (3) TThF 1:10-2:25
  (2) TThF 10:10-11:25 (4) TThF 1:10-2:25

**370 Music in Modern America (3)**  
S. Lutzky, R. Kennedy
  (2 sections)
  Varieties of music, including jazz and popular forms, in contemporary American life, with relevant antecedents.
  Daily (1) 10:10-11:25 (Lutzky)
  (2) 10:10-11:25 (Kennedy)

**465 Popular Culture in America (3)**  
F. Matson
  Examination of the major themes, modes and media of popular
or mass cultures in the U.S., with emphasis on cultural trends and social implications. Daily 8:45-10:00

475 American Taste (3) N. Ferdon Study of popular attitudes towards the arts, travel, fashion, craft and industrial productions, and recreation. Daily 11:35-12:50

490 Special Topics: Myths in American Development (3) J. McCutcheon Examination of major American myths, including success and failure, individualism, equality, progress, the concept of the wilderness and frontier, and the American sense of mission. Daily 11:35-12:50

495 Black Americans and American National Character (3) M. Helbling Examination of the nature of American national character and of the role Black Americans have played in the making of that character. Pre: U.S. history and a survey course in either sociology or anthropology. Daily 1:10-2:25

150 Introduction to Anthropology (3) Staff Human evolution: prehistoric development of culture; recent and contemporary man, common features and principal variations in cultural behavior. Daily 8:45-10:00

200 Cultural Anthropology (3) M. Sharma Nature of culture; basic concepts for analyzing cultural behavior; patterning, integration, and dynamics of culture; culture and the individual. Daily 8:45-10:00

230 Social Anthropology (3) J. Harre Systematic study of human social institutions; general principles of social interaction formulated from ethnographic data. Pre: 150 or 200 or written consent of instructor. Daily 11:35-12:50

435 Psychological Anthropology (3) F. Hsu Study of personality in relation to sociocultural systems. Theories and techniques for analysis. Daily 10:30-11:25

440 Regional Cultures of Asia, Ryukyus (3) R. Pearson Historical problems and regional developments in ecology, social structure, world view, and other aspects of selected indigenous cultures. Pre: 200, or written consent of instructor. May be repeated. Daily 10:10-11:25

440(4) Regional Cultures of Asia, South Asia (3) M. Sharma Historical problems and regional developments in ecology, social structure, world view, and other aspects of selected indigenous cultures. Pre: 200, or written consent of instructor. May be repeated. Daily 11:35-12:50

480(1) Anthropological Applications: Development on Urban Organization (3) J. Harre Anthropological theory, method, data applied to problems in specialized fields. Oriented to needs of students in professional fields who lack anthropological background. Daily 8:45-10:00

750 Research Seminar, Psychological Anthropology (3) F. Hsu Reporting and discussion of selected problems in current research. Pre: classified graduate standing and written consent of instructor. May be repeated. To meet once a week for 12 weeks. Time to be arranged.

ARCHITECTURE (Arch)

472 Japanese Architecture and Landscaping (3) B. Kobayashi Review of Japanese architecture and landscaping from historical to present times including shrines, temples, gardens and domestic architecture with a study of the people, their motives and philosophies as they affect architecture. Pre: consent of instructor. Daily 8:45-10:00

ART (Art)

Except as noted, completion of introductory studio courses Art 113, 114, 115, 116 and Art 101 is the prerequisite to all studio courses numbered 200 and above. Art 101 is the prerequisite to all art history courses but other appropriate preparation may be substituted with the consent of the instructor.

The department may retain any student work for departmental use.

101 Introduction to the Visual Arts (3) M. Turnbull The nature of visual art and its expressions in various forms. Lectures, demonstrations. Daily 8:45-10:00

105 Elementary Studio—Ceramics (3) S. Fletcher, M. Takata (4 sections) Studio experience mainly for non-majors. Lectures and projects. Credit cannot count towards major requirements in Art. Daily (1) 1:10-3:50 (Fletcher) (2) 7:20-10:00 (Fletcher) (3) 10:10-12:50 (Fletcher) (4) 1:10-3:50 (Takata)

106 Elementary Studio—Sculpture (3) N. Yamasaki Studio experience mainly for non-majors. Lectures and projects. Credit cannot count towards requirements in Art. Daily 10:10-12:50

108 Elementary Studio—Drawing and Painting (3) R. Davidson, B. Norris, J. Wisnosky, Staff (4 sections) Studio experience mainly for non-majors. Lectures and projects. Credit cannot count towards major requirements in Art. Daily (1) 1:10-3:50 (Wisnosky) (2) 7:20-10:00 (Wisnosky) (3) 10:10-12:50 (Norris) (4) 1:10-3:50

113 Introductory Studio "A" (3) J. Wilg Emphasis on perception: visual responses to nature; materials, techniques, modes of representation. Problems in two and three dimensions involving photography, drawing, painting, sculpture, and construction. Offered only as pass-fail. Daily 10:10-12:50
115 Introductory Studio “C” (3)  Z. Katz  
Emphasis on space: environmental; actual and illusory; changing spatial systems and space modifiers. Problems in two and three dimensions involving drawing, painting, sculpture, design. Offered only as pass-fail.
Daily 10:10-12:50

116 Introductory Studio “D” (3)  J. Wisnosky  
Emphasis on time, motion, systems; visual kinetics sequence, rhythm, order, and systems. Problems in two and three dimensions involving drawing, painting, sculpture, design. Offered only as pass-fail.
Daily 10:10-12:50

207 Photography A (3)  F. Salmo
(2 sections)
Camera as tool of expression and photography as basic art form. Student required to have own camera.
Daily (1) 7:20-10:00 (Salmo)
(2) 8:45-11:25 (Salmo)

213 Figure Drawing (3)  K. Bushnell, S. Kimura
(2 sections)
Intensive drawing from human figure. May be repeated.
Daily (1) 10:10-12:50 (Bushnell)
(2) 1:10-3:50 (Kimura)

217 Printmaking (3)  R. Davidson, K. Bushnell
(2 sections)
Technical controls; development of concepts appropriate to printmaking. May be repeated.
Daily (1) 10:10-12:50 (Davidson)
(2) 1:10-3:50 (Bushnell)

223 Painting “A” (3)  B. Norris
Painting from studio and outdoor subject matter. Elements of pictorial style.
Daily 7:20-10:00

230 Textile Design (3)  M. Havaas
(2 sections)
Daily (1) 7:20-10:00 (Havaas)
(2) 10:10-12:50 (Havaas)

238 Weaving (3)  J. Williams
(2 sections)
Creative processes of weaving. Warping and threading of simple hand looms and multiple harness looms. Seminars.
Daily (1) 7:20-10:00 (Williams)
(2) 8:45-11:25 (Williams)

243 Ceramics A (3)  P. Myers
(2 sections)
Introduction to ceramic forms using hand building and wheel throwing techniques. Introduction to glazing techniques and surface treatment. Seminars.
Daily (1) 7:20-10:00 (Myers)
(2) 1:10-3:50 (Myers)

244 Ceramics B (3)  S. Pleyte
Daily 10:10-12:50

253 Sculpture (3)  J. Hadley
Study of form and structure, using variety of materials and techniques. Seminars.
Daily 1:10-3:50

254 Intermediate Sculpture A (3)  M. Sato
Developing concepts of form and form relationships using a variety of materials with an emphasis on carving and casting. Seminars. Pre: 253.
Daily 10:10-12:50

255 Intermediate Sculpture B (3)  Z. Katz
Developing concepts of form and form relationships using a variety of materials with an emphasis on the additive process. Seminars. Pre: 253.
Daily 7:20-10:00

265 Advanced Visual Design (3)  W. Anderson
Investigation into processes of visualization, its expression and control. Seminars. May be repeated.
Daily 10:10-12:50

270 Aspects of European and American Art (3)  J. Scott
Major developments in arts of Europe and America.
Daily 7:20-8:35

317 Advanced Printmaking (3)  R. Kowalke
Independent projects; advanced studio practice. Seminars. Pre: two semesters of 217. May be repeated.
Daily 7:20-10:00

333 Advanced Sculpture (3)  M. Sato
Individual projects stressing experimentation and subjective approach to form. Seminars. Pre: 254, 255. May be repeated.
Daily 1:10-3:50

361 Typography (3)  G. Lenox
Development of letter form in calligraphy and typography.
Daily 7:20-10:00

376 Modern Art (3)  J. Scott
Sculpture and painting of Europe and America in 19th and 20th centuries. Pre: 270.
Daily 10:10-11:25

389 Japanese Painting of Tokugawa Times (3)  H. Issacson
Study of the various schools of painting that emerged and flourished in Japan during the Tokugawa Period (1600-1860).
Daily 8:45-10:00

391 Art of South Asia (3)  P. Neogy
Major developments in arts of South Asia, West Asian context and growth of Southeast Asian art. Pre: 280.
Daily 11:35-12:50

407 Advanced Photography (3)  F. Salmo
Individual problems in advanced photography. Seminars. Pre: 208 and consent of instructor. May be repeated.
Daily 11:35-2:25

472 Primitive Art (3)  S. Gill
Survey of styles and esthetic characteristics of arts of pre-literate cultures.
Daily 8:45-10:00

475 Arts of the Pacific (3)  S. Gill
Stylistic and esthetic characteristics of indigenous arts of Oceania, including Australia, Indonesia, Micronesia, Melanesia, Polynesia.
Daily 10:10-11:25

489 Buddhist Painting in Japan and Tibet (3)  H. Issacson
Study of formal Buddhist painting in two lands of continuous Mahayana Buddhism. It throws light not only upon Buddhism, but upon the intrinsic possibilities of painting itself.
Daily 11:35-12:50

617 Printmaking (3)  R. Kowalke
Individual problems in intaglio, relief and planographic processes. Seminars. Pre: consent of chairman and instructor. May be repeated.
Daily 7:20-10:00
FIRST TERM  Biochemistry—Business

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>630</td>
<td>Textile Design (3)</td>
<td>M. Havas</td>
<td>3</td>
<td>Individual problems in areas of specific interest within textile field. Seminar. Pre: consent of chairman and instructor. May be repeated. Daily 10:10-12:50</td>
</tr>
<tr>
<td>653</td>
<td>Graduate Sculpture (3)</td>
<td>M. Sato</td>
<td>3</td>
<td>Pre: consent of chairman and instructor. Daily 1:10-3:50</td>
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BIOCHEMISTRY (Bioch)

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<tbody>
<tr>
<td>480</td>
<td>Introduction to Human Endocrinology (2)</td>
<td>G. Bryant</td>
<td>2</td>
<td>Introduction to endocrine system, structure, physiology, hormones as chemicals, their biological effects and regulation of secretion. Pre: 441. Daily 9:10-10:00</td>
</tr>
<tr>
<td>481</td>
<td>Introduction to Molecular Biology (2)</td>
<td>M. Mandel</td>
<td>2</td>
<td>The biochemical basis of life is presented in terms of the structure and function of the gene in the production of biological catalysts. Pre: 441. Daily 7:45-8:35</td>
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BOTANY (Bot)

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<tr>
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<tbody>
<tr>
<td>181</td>
<td>Plant Life of the Sea (4)</td>
<td>Staff</td>
<td>4</td>
<td>The kinds of marine plants, the algae and seaweeds, where they grow, and the part they play in the productivity of the sea. Pre: an introductory college biology course. Sea-shore trips. Daily 7:45-8:30</td>
</tr>
<tr>
<td>399</td>
<td>Botanical Problems (arr.)</td>
<td>Staff</td>
<td></td>
<td></td>
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<tr>
<td>699</td>
<td>Directed Research (arr.)</td>
<td>Staff</td>
<td></td>
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<tr>
<td>799</td>
<td>Directed Research (arr.)</td>
<td>Staff</td>
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BUSINESS ADMINISTRATION

Accounting (Ace)

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<tbody>
<tr>
<td>201</td>
<td>Elementary Accounting (3)</td>
<td>E. Currie</td>
<td>3</td>
<td>Theory and practice of income determination and asset valuation. Preparation and analysis of statements; uses for decision making. Pre: sophomore standing. MWF (1) 7:45-9:30 MWF (2) 9:40-11:25 Lab (1) Th 7:45-9:30 (3) Th 9:40-11:25 (2) Th 7:45-9:30 (4) Th 9:40-11:25</td>
</tr>
<tr>
<td>202</td>
<td>Elementary Accounting (3)</td>
<td>H. Lowe</td>
<td>3</td>
<td>Theory and practice of income determination and asset valuation. Preparation and analysis of statements; uses for decision making. Pre: 201. Daily (1) 8:45-10:00 (Laboratory to be arranged) (2) 10:10-11:25 (Laboratory to be arranged)</td>
</tr>
<tr>
<td>305</td>
<td>Cost Accounting (3)</td>
<td>S. Lee</td>
<td>3</td>
<td>Cost determination and analysis as a tool of management in such areas as pricing and make, rent or buy decisions. Includes job order, process, direct and standard costs. Pre: 202, BAS 111. Daily 7:20-8:35</td>
</tr>
<tr>
<td>445</td>
<td>Advanced Cost Accounting (3)</td>
<td>S. Lee</td>
<td>3</td>
<td>Application of costs and other control techniques to complex managerial costs and problems dealing with performance evaluation, intra-company transfer pricing, return on invested capital, internal profit measurement. Pre: 305. Daily 10:11-12:25</td>
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</tbody>
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Business Analysis and Statistics (BAS)

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<tbody>
<tr>
<td>111</td>
<td>Applied Mathematics (3)</td>
<td>S. Kim, P. Vlachos</td>
<td>3</td>
<td>(2 sections) Application of mathematical operations to problems in business and economics; linear equations; progressions; theory of sets and functions; elementary matrix notation; differential and integral calculus (including partial differentiation, maxima and minima, Lagrange multiplier techniques). Pre: Math 134. Daily (1) 7:20-8:35 (Vlachos) (2) 10:10-11:25 (Kim)</td>
</tr>
<tr>
<td>301</td>
<td>Business Statistics (3)</td>
<td>G. Congdon</td>
<td>3</td>
<td>(2 sections) Principles of statistical inference, including frequency distribution, averages, variation, testing hypotheses, estimation of population mean, index numbers, time series, correlation, probability, sampling, chi square and F distribution, analysis of variance. Utilization of statistical data as aid to managerial decisions. Daily (1) 7:20-8:35 (2) 10:10-11:25</td>
</tr>
<tr>
<td>302</td>
<td>Business Statistics (3)</td>
<td>J. Marsh</td>
<td>3</td>
<td>Principles of statistical inference, including frequency distribution, averages, variation, testing hypotheses, estimation of population mean, index numbers, time series, correlation, probability, sampling, chi square and F distribution, analysis of variance. Utilization of statistical data as aid to managerial decisions. Daily 10:10-11:25</td>
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Business Economics (BEC)

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<tr>
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</thead>
<tbody>
<tr>
<td>303</td>
<td>Money, Credit and the</td>
<td>T. Ige</td>
<td>3</td>
<td>Capital Market (3) Nature and functions of money, debt and credit, liquidity; financial institutions and money market analysis; fund flow analysis. Daily 7:20-8:35</td>
</tr>
<tr>
<td>341</td>
<td>Managerial Economics I (3)</td>
<td>P. Shin</td>
<td>3</td>
<td>Demand analysis; production analysis relating to factors and products; various forms of imperfect competition; demand creation and selling costs; multiproduct output; technological change; problems of uncertainty. Pre: Math 134, BAS 111. Daily 8:45-10:00</td>
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</tbody>
</table>
FIRST TERM Business

342 Managerial Economics II (3) P. Vlachos
Working concepts and case studies relating to demand analysis and production analysis; problems of demand creation, multifactors and multiproducts, technological change; cases involving working capital, financing and capital budgeting; input-output analysis and programming techniques. Pre: 341.
Daily 10:10-11:25

361 Foreign Trade and American Industry (3) J. Marsh
Introduction to world trade, its development and current status; study of foreign trade principles, including international commercial problems and policies, tariff policies, and exchange controls that affect exporting and importing industries.
Daily 11:35-12:50

Law (Law)
300 Principles of Business Law (3) D. Bury
(2 sections)
American system of jurisprudence, elements of torts, criminal law, property trusts and estates, law of contracts and agency.
Daily (1) 7:20-8:35 (2) 8:45-10:00

Management (Mgt)
300 Principles of Management (3) Staff
Basic management functions of planning, controlling, organizing, staffing, directing; emphasis on human factors and quantitative analysis in developing a sound philosophy of management; critical evaluation of current practices in business firms.
Daily 10:10-11:25

341 Human Factors in Management (3) L. Kelley
Human relations in business; contributions of sociology and psychology to the management process and to an understanding of individual behavior in organizations.
Daily 10:10-11:25

345 Business Policy (3) H. Reeser
Case studies in assessing alternative risks in solving policy problems; and interdisciplinary approach applying and integrating many of the subjects in the College of Business Administration. Pre: 2nd semester senior standing.
Daily 11:35-12:50

Marketing (Mkt)
300 Principles of Marketing (3) F. Harding
Fundamental concepts and problems of marketing within the present economic, legal and social environments; consumer analysis, functional analysis, and marketing institutions. Prerequisite to all other marketing courses.
Daily 8:45-10:00

331 Advertising Management (3) E. Faison
Advertising decision making, advertising's role in the marketing mix, primary demand stimulation, selective demand stimulation, building complete programs, and advertising agency relationships.
Daily 10:10-11:25

Personnel and Industrial Relations (PIR)
300 Personnel and Labor Relations (3) E. Pendleton
Introduction to labor and trade unionism; introduction to personnel management principles and practices.
Daily 7:20-8:35

367 Labor-Management Relations in the Public Service (3) E. Pendleton
Review and analysis of the basic factors which distinguish private from public employment relations, and examination of the development of recent legislation and programs on the federal, state and municipal levels. Specific consideration will be given to current problems on the mainland and Hawaii. Pre: 361 or permission of instructor.
Daily 10:10-11:25

GRADUATE COURSES IN BUSINESS ADMINISTRATION

Bus 502 Economic Analysis (3) T. Ige
Economic analysis and background of business firms; economic decisions and economic environment of business. MTh 6:00-9:20 p.m.

Bus 503 Introduction to Quantitative Methods (3) P. Shin
An elementary survey of basic tools for quantitative analysis for business. MTh 6:00-9:20 p.m.

Bus 504 Management Theory (3) L. Kelley
Managing the technical and human factors of the firm. MTh 6:00-9:20 p.m.

The course listed below will be offered June 15-Aug. 14.

Bus 621 Managerial Economics (3) S. Kim
Applications of economic analysis to wide variety of problems in business. Topics include management decision theory, profit, demands, production, cost, pricing, competition, capital budgeting. MTh 6:00-8:15 p.m.

The eight courses listed below will be offered June 15-Sept. 4.

Bus 601 Managerial Accounting (3) E. Currie
The evaluation and utilization of cost and other quantitative data with emphasis upon its contribution to managerial planning, control and decision making. M 6:00-9:20 p.m.

Bus 611 Statistical Methods of Business Analysis (3) S. Kim
Mathematical methods and techniques of statistical inference used in business. T 6:00-9:20 p.m.

Bus 631 Finance (3) L. Freitas
Analysis of fundamental financial problems. Financial planning and management, capital budgeting, securities and other financial instruments, financial markets, principal financial intermediaries. W 6:00-9:20 p.m.

Bus 641 Administration (3) C. Reeser
Development of administration theory and practices; analysis of the administrative process as an integrated whole; evaluation of current trends and problems. W 6:00-9:20 p.m.

Bus 651 Marketing (3) F. Harding
Analysis of fundamental problems in marketing management and modern methods of attacking them. Emphasis is upon strategy, decision-making, and the relationship of the firm to its customers. Th 6:00-9:20 p.m.

Bus 798 Business Policy (3) E. Faison
Analysis of comprehensive business problems to provide an integration of learning through the resolution of policy issues and through practice in administrative decision-making. Th 6:00-9:20 p.m.
TRAVEL INDUSTRY MANAGEMENT (TIM)

100 Internship (0) J. Feisthamel
200 hours of paid employment in hotel or tourist industry.
Employment obtained by student with help and approval of
School. (TIM majors only)
Hrs. arr.

101 Introduction to Travel Industry Management (3) R. Baird, C. Metelka
Broad general principles of hotel management and tourism
particularly from standpoint of the close link between the two and
the rapid developments taking place in these fields; guest lectures
by leaders of the hotel and travel industries.
Daily 11:35-12:50

200 Internship (0) J. Feisthamel
200 hours of paid employment in hotel or tourist industry.
Employment obtained by student with help and approval of
School. (TIM majors only)
Hrs. arr.

300 Internship (1) J. Feisthamel
200 hours of paid employment in hotel or tourist industry.
Employment obtained by student with help and approval of
School. (TIM majors only)
Hrs. arr.

301 Hotel Management Principles (3) C. Gee
Basic management functions: planning, controlling, organiz­ing,
staffing, directing; emphasis on human factors and quanti­tative
analysis in developing sound philosophy of management.
Critical evaluation of current practices in business firms. Empha­sis
on principles as they affect hotel, restaurant, tourism industries.
Daily 11:35-12:50

321 Tourism Principles I (3) C. Metelka
Study and application of basic components of tourism.
Includes philosophy and promotion of tourism, travel counseling,
use and evaluation of publicity media, development of tourism at
regional, national, international levels.
Daily 8:45-10:00

351 Studies in Hotel Management Controls (3) J. Feisthamel
Cost accounting and controls for hotel and food service
operations, including budgeting, front office accounting, food
and beverage controls, payroll controls, financial analysis. Pre: Acc
202.
Daily 10:10-11:25

400 Internship (1) J. Feisthamel
200 hours of paid employment in hotel or tourist industry.
Employment obtained by student with help and approval of
School. (TIM majors only)
Hrs. arr.

Real Estate (RE)

300 Real Estate Fundamentals (3) Staff
Principles of real estate for the customer and home owner, and
business; real estate law, brokerage, management, appraisal,
finance.
Daily 10:10-11:25

Transportation (Trans)

351 Economics of Transportation (3) F. Harding
Development of major transportation systems and their
marketing function in American economy as integral part of
process of physical distribution. Pre: Econ 151 or BEc 341.
Daily 8:45-10:00

CHEMISTRY (Chem)

114 General Chemistry (3) R. Buddemeier
Fundamental laws, principles, methods. Pre: 113. (Continua­tion of 113.)
Daily 8:30-10:00

116 General Chemistry Laboratory (1) R. Buddemeier
Experiments illustrating fundamental principles of chemistry.
Pre: 115. credit or registration in 114.
Laboratory W 8:45-10:00

133 Elementary Quantitative Analysis (2) Q. Fernando
Beginning gravimetric and volumetric analysis. Pre: 114-116
or 117. 118.
Daily 11:35-12:25

134 Elementary Quantitative Analysis Laboratory (2) Q. Fernando
Gravimetric and volumetric analysis. Pre: credit or registra­tion in 153.
Laboratory (1) Daily 8:00-11:30 (2) Daily 1:30-5:00

243 Organic Chemistry (3) O. Rodig
Carbon compounds. Topics include molecular structure,
stereochemistry, nuclear magnetic resonance, reactions and
methds of preparation of principal classes of organic compounds.
Pre: 114, 116 or 117, 118.
Daily 8:30-10:00

245 Organic Chemistry Laboratory (1) O. Rodig
Techniques of organic chemistry. Synthesis and qualitative
Laboratory MWF 1:00-5:00

399 Directed Research (arr.) Staff
Pre: consent of department chairman.
Hrs. arr.

799 Directed Research (arr.) Staff
Pre: consent of department chairman.
Hrs. arr.

CHINESE (Chin)

101 Elementary Chinese (3) Staff
Development of listening, speaking, reading, and writing.
Structural points introduced inductively.
Daily 9:10-11:25 plus laboratory

105 Mandarin for Speakers of Cantonese (3) Staff
Rapid introduction to spoken Mandarin for students who
already have some knowledge of Cantonese and the Chinese
writing system. Content of Chinese 101-102 covered.
Daily 9:10-11:25 plus laboratory
111 Intensive Elementary Chinese (6)  Staff
Intensive course equivalent to Elementary Chinese of academic year. Includes all four skills: listening, speaking, reading and writing. In addition to 25 hours of class work a week for 6 weeks, two periods of laboratory drill daily required. Pre: consent of instructor.
Daily 7:20-10:00; 1:35-3:25 plus laboratory

141 Introduction to Chinese Calligraphy (1)  C. S. Yung
Practice in writing with a Chinese brush. Pre: credit or registration in 101 or equivalent.
Daily 9:10-10:00

201 Intermediate Chinese (4)  Staff
Continuation of 101-102. Language lab practice required daily.
Daily 9:10-11:25 plus laboratory

301 Third-Level Chinese (3)  Staff
Emphasis on vocabulary building and extended mastery of sentence structures of modern Chinese through reading and related conversation. Pre: 202 or equivalent.
Daily 8:45-10:00 plus laboratory

361 Chinese Literature in Translation—Traditional (3)  L. Winters
Historical survey from earliest times to 1842, with emphasis on analysis. Knowledge of Chinese not required. Pre: two semesters of literature in English department.
Daily 1:10-2:25

401 Fourth-Level Chinese (3)  Staff
Extensive reading with emphasis on academic topics. Pre: 302 or 303.
Daily 10:10-11:25 plus laboratory

451 Structure of Chinese (3)  B. Speer
Introductory study of phonology, morphology, syntax of Mandarin Chinese including some discussion of usage and linguistic geography. Pre: 202 or equivalent.
Daily 1:10-2:25

461 Introduction to Modern Chinese Literature (3)  L. Winters
Selected readings in major genres, with an emphasis on analysis. Pre: 361 and 402.
Daily 10:10-11:25

617 Traditional Chinese Fiction (3)  C. T. Lo
Study of major novels of Yuan, Ming, Ch'ing periods. Pre: 302, 436 or equivalent.
Daily 11:35-12:50

DRAMA AND THEATRE (Drama)

160 Introduction to Drama and Theatre (3)  W. D. Carroll
Representative plays studied as illustrative of changing forms in the theatre and dramatic literature.
Daily 8:45-10:00

221 Beginning Acting (3)  G. Cannon
Individual exercises and group rehearsals with emphasis on voice, movement, relaxation.
Daily 10:10-11:25

250 Theatre Workshop (3)  O. W. Schaumb
Lectures and supervised work in theatrical production, coordinated with productions of the University Summer Theatre; for the general student as well as drama majors and participants in the summer plays.
Daily 2:00-5:00

260 Dramatic Production (3)  J. Trapido
Introduction to process of converting the play into the performance.
Daily 10:10-11:25

281 Beginning Modern Dance (3)  W. Martin
Introduction to basic technical skills and creative processes.
Daily 8:45-10:00

283 Beginning Ballet (3)  K. Mullen
Introduction to the vocabulary of movement of classical ballet.
Daily 10:10-11:25

321 Intermediate Acting (3)  G. Cannon
Emphasis upon individual work in characterization and improvisation. Pre: 221-222 or consent of instructor.
Daily 11:35-12:50

370 Creative Dramatics (3)  D. H. Kaya
Intensive study of dramatic activities for children and young people; designed for teachers, group workers, recreation majors, and others dealing with children.
Daily 8:45-10:00

381 Intermediate Modern Dance (3)  Staff
Development of flexibility, control, rhythm, and expressiveness. Pre: 281-282 or consent of instructor.
Daily 1:10-2:25

476 Puppetry (3)  D. H. Kaya
Survey of history and scope of puppetry. Construction and presentation of puppets for adult and child audiences.
Daily 11:35-12:50

570 The Japanese Theatre (3)  J. R. Brandon
Survey of the principal forms—Noh, the doll theatre, Kabuki, and modern drama.
Daily 11:35-12:50

660 Theories of the Theatre (3)  W. D. Carroll
Theories of production, from Aristotle to Brecht.
Daily 10:10-11:25

ECONOMICS (Econ)

120 Introduction to Economics (3)  D. Ashby
One-semester course for non-majors. Provides general understanding of functioning of economic systems, including various approaches to organization of production and allocation of resources, and of policies designed to achieve national economic goals.
Daily 8:45-10:00

150 Principles of Economics (3)  A. Abudu
Analysis of functioning of economic systems with emphasis on forces determining levels and changes of national income and employment. Describes basic economic institutions, e.g. markets, money, banks, labor organizations, corporations.
Daily 10:10-11:25

151 Principles of Economics (3)  Y. Lim
Analysis of how commodity and factor prices are determined. Discusses policies for efficient allocation of scarce resources. Required of all economics majors.
Daily 8:45-10:00
300 Intermediate Economic Theory: National Income (3) Staff
Concepts; determination of income, employment, price levels; effects of fiscal, monetary, other policies. Pre: 150.
Daily 8:45-10:00

301 Intermediate Economic Theory: Price Theory (3) I. Rose
Price determination and resource allocation under competition, monopoly, oligopoly, monopolistic competition. Theories of demand, cost, partial, general equilibrium. Pre: 151.
Daily 11:35-12:50

321 Elementary Statistics (3) J. Tawil
Basic elements of statistics, with emphasis on application: graphic presentation, logarithmic scales, rates and ratios, time series analysis, index numbers, regression and correlation analysis. Daily 11:35-12:50

340 Money and Banking (3) D. Ashby
Nature and role of money; development of national and international monetary standards; role of commercial banking and financial intermediaries; development and function of central banking. Pre: 150.
Daily 11:35-12:50

405 Comparative Economic Systems (3) A. Abudu
Analysis of structure, institutions, operation, performance, growth of private enterprise, socialist, communist and mixed economies with emphasis on U.S., U.S.S.R. and underdeveloped economies. Pre: 150, 151 or consent of instructor.
Daily 7:20-8:35

410 Economic Development (3) J. Tawil
Study of characteristics of underdeveloped economies, theories of economic growth, strategies of economic development, and investment criteria. Pre: 150, 151 or consent of instructor.
Daily 8:45-10:00

415 Asian Economic Development (3) Y. Lim
Study of history and economic development of Asian nations other than Japan. Resources, population and income; savings, investment and consumption patterns. Role of government and private enterprise. Pre: 150, 151 or consent of instructor.
Daily 11:35-12:50

460 International Trade Theory (3) Y. Yeh
Theoretical, institutional and historical aspects of international economic relations considered, including foreign exchange rates, balance of payments adjustment, tariffs, quotas, trading blocks. Pre: 300, 301.
Daily 10:10-11:25

470 Industrial Organization and Public Control of Business (3) F. Hung
Daily 10:10-11:25

496 Selected Topics in Contemporary Economic Problems (3) L. Rose
Topic for this term: the relevance of economic principles is demonstrated in their application to current problems. Instructor will cover 6 or 7 topics selected by the students. Suggested topics are air pollution, airport congestion, crime control, the draft, futures trading, radio interference, racial discrimination, rent controls, social choice, and sports. Pre: 120 or consent of instructor.
Daily 8:45-10:00

600 Macroeconomic Theory (3) L. Chau
Keynesian and post-Keynesian theories of aggregate economies with special attention to factors determining levels of employment, prices, real income. Stabilization policies. Pre: 300.
Daily 11:35-12:50

601 Microeconomic Theory (3) G. Walton
Rigorous analysis of consumer's choice; pricing of products and factors of production under competitive conditions, partial and general equilibrium monopoly and imperfect competition, risk and uncertainty, and capital theory. Pre: 301.
Daily 8:45-10:00

624 Advanced Econometrics I (3) Staff
The classical linear regression model, its concepts and properties; analysis of variance, analysis of covariance; problems in applying the regression model to test single-equation economic relations; extension and revisions of the basic model; use of computer to perform regression calculations. Pre: 321, 426.
TTh 1:00-3:30

660 International Trade Theory (3) Y. Yeh
Modern development in national income theory and welfare economics with relation to international trade. Pre: 460 or consent of instructor.
MW 1:00-3:30

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EDUCATION

Curriculum and Instruction (Ed Cj)
Courses numbered from 312 through 349 have as prerequisite enrollment in the College of Education as a classified student.

312(5) Foundations in Curriculum and Instruction: Elementary Education (3) M. Lang
Study of objectives and organization of school's curriculum; discussion of principles and practices; roles of teacher in school. Daily 7:20-8:35

312(10) Foundations in Curriculum and Instruction: Secondary Education (3) P. Whitesell
Study of objectives and organization of school's curriculum; discussion of principles and practices; roles of teacher in school. Daily 8:45-10:00

319 Children's Literature (2) Staff
(2 sections)
Acquaintance with wide range of children's books; criteria for judging literature on basis of needs and interests. Pre: 312 or concurrent registration.
Daily (11) 7:45-8:35 (2) 9:10-10:00

320 Language Arts, Elementary (2) Staff
Modern approach to teaching of language arts — reading, oral, written expression. Pre: 312 or concurrent registration.
Daily 7:45-8:35

321 Reading, Elementary (2) K. Young
Survey of reading process: development of reading readiness, word recognition, comprehension, reading rate, vocabulary, reading interests, reading in content areas. Selection and use of reading materials, evaluation and appraisal of reading progress. Daily 7:45-8:35

322 Social Studies, Elementary (2) T. Kaltsounis
Major purposes: to point out special contributions of social studies to elementary curriculum; to aid students in developing sound instructional programs and procedures in elementary social studies. Pre: 312 or concurrent registration.
Daily 9:10-10:00

323 Science, Elementary (2) A. Carr
Science education in elementary school; methods and materials; laboratory activities selected from new science curricula. Pre: 312 or concurrent registration.
MWF 9:10-10:00
Lab TTh 8:45-10:00
324 Mathematics, Elementary (2) L. King
Purposes, procedures, scope, organization in developing underlying concepts of elementary mathematics; analysis of new elementary mathematics programs; techniques, relative merits, roles of inductive and deductive approaches to new ideas. Pre: 312 or concurrent registration; Math 111.
Daily 7:45-8:35

326 Creative Art, Elementary (2) A. Pickens, M. Black
(3 sections)
Understanding scope and importance of art in elementary school curriculum, creative use of art media through laboratory experiences. Pre: 312 or concurrent registration; Art 101.
Daily (1) 9:10-10:50 (Pickens)
(2) 9:10-10:50 (Black)
(3) 11:10-12:50 (Black)

441 Education of the Slow Learners (3) O. Johnson
Characteristics and educational provisions for slow learning children. (Student must enroll in both 441 and 442.)
Daily 8:45-10:00

442 Curriculum Development and Instruction for the Slow Learners (3) O. Johnson
Development of curricula and use of instructional materials for teaching slow learners in grades K-12. (Student must enroll in both 442 and 441.)
Daily 10:10-11:25

520(5) Supervision of Student Teaching: Elementary (3) P. Yamashita
Principles and methods; role of supervisor; human relations in supervision of student teaching. Pre: teaching experience; consent of instructor.
Daily 8:45-10:00

520(10) Supervision of Student Teaching: Secondary (3) D. Noda
Principles and methods; role of supervisor; human relations in supervision of student teaching. Pre: teaching experience; consent of instructor.
Daily 7:20-8:35

527 Methods and Materials for the Study of Hawaii (3) D. Hazama
Course on State of Hawaii organized to have island teachers study content, materials, and activities that may be used particularly in grades 4-7 in Hawaii schools. Pre: 312 or concurrent registration; teaching experience; 322.
Daily 8:45-10:00

540(7) Practicum in Curriculum Development: Industrial (2) M. Poyzer
Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods course; teaching experience.
Daily 7:45-8:35

540(9) Practicum in Curriculum Development: Science (3) R. Campbell
Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods course; teaching experience.
Daily 10:10-11:25

595 Aerospace Education Workshop (3) D. Aten
Introduction to aerospace science and technology and social, economic, and political implications. Designed for all K-12 teachers, administrators, and curriculum specialists. Specialized background in science not required. Participation by national and local leaders in aerospace and related fields. Laboratory experiences include demonstrations, field trips, and development of curriculum materials. Descriptive brochure sent on request. Fee for laboratory and materials is $15. Advanced registration required. Deadline is May 1, 1970.
MTW 8:50-11:20 Th 8:50-2:50
June 16-July 17 Kaimuki High School

619 Children's Literature in the Elementary Curriculum (3) M. Austin
Examination in depth of traditional and modern literature for children with emphasis upon genre, historical development, research, curriculum development. Pre: 319.
Daily 7:20-8:35

620 Teaching Reading in the Elementary School (3) M. Austin
Daily 10:10-11:25

621 Modern Language Arts Program, Elementary (3) Staff
Critical examination of educational procedures in teaching of language arts; current research including that related to language deprivation and linguistic science. Pre: 320 and teaching experience.
Daily 10:10-11:25

623 Elementary Science Curriculum (3) A. Carr
Daily 10:10-11:25

624 Elementary Mathematics Curriculum (3) I. King
Principles of and problems in teaching mathematics at the elementary school level. Pre: teaching experience. (2 sections)

625 Secondary School Curriculum (3) T. Kaltsoounis
Examination and evaluation of social science content, societal values, and research findings as basis for development and revision of social studies materials, texts, curriculum guides, methodology. Pre: 322 and teaching experience.
Daily 11:35-12:50

626 Art in Elementary Education (3) A. Pickens
Principles of and problems in teaching art in elementary school; curriculum development and current approaches in art education; laboratory experiences in art media. Pre: 326; Art 101.
Daily 7:20-9:00

636 Secondary School Curriculum (3) J. Fultz, P. Whitesell
(2 sections)
Principles and techniques of curriculum improvement at the secondary school level. Pre: teaching experience.
Daily (1) 8:45-10:00 (Fultz)
(2) 11:35-12:50 (Whitesell)

646 Reading Difficulties (3) K. Yamamoto, K. Young
(3 sections)
Causes, prevention, and correction. Evaluation and remedial practices useful to classroom teacher. Pre: course in teaching of reading.
Daily (1) 8:45-10:00 (Yamamoto)
(2) 10:10-11:25 (Yamamoto)
(3) 10:10-11:25 (Young)
722 Seminar in Elementary Curriculum Foundations (3) A. Inn (2 sections) Advanced study in development and improvement of curriculum of elementary schools. Required for Plan B M.Ed. candidates in their final semester or summer session. Pre: 622; consent of instructor. May be repeated once for credit. Daily (1) 8:45-10:00 (2) 10:10-11:25

733 Seminar in Curriculum, Secondary (3) D. Noda, J. Fultz (2 sections) Advanced study in development and improvement of curriculum of secondary schools. Required for Plan B M.Ed. candidates in their final semester or summer session. Pre: 636; consent of instructor. May be repeated once for credit. Daily (1) 10:10-11:25 (Noda) (2) 11:35-12:50 (Fultz)

751 Community College Curriculum (3) J. Lombardi Essential role of community college in a democratic society is examined. Techniques in identifying community needs; curriculum planning for academic and occupational education; evaluation of total program. Pre: teaching experience and consent of instructor. (Identical with Ed EA 751.) Daily 10:10-11:25

Industrial Education (IE)

300 Industrial Crafts—Jewelry and Lapidary Processes (2) M. Poyzer Design, processes and materials of jewelry making; lapidary processes and materials for polishing semi-precious gemstones; black coral polishing and mounting. Daily 12:35-2:25

348 Industrial Arts for Elementary Teachers (2) M. Poyzer Hand and simple machine tool instruction taught through selected elementary education projects and units. Daily 9:10-11:00

Educational Administration (Ed EA)

610 School-Community Relations (3) J. Crossley Application of principles, techniques, policies, organization of school-community information program. Pre: consent of instructor. Daily 8:45-10:00


623 Administrative Problems in Physical Education (3) J. Hall Current problems and recent trends in conduct of physical education programs in educational settings. For administrators, teachers, and graduate students in physical education and related fields. Pre: HPE 423 or equivalent and consent of instructor. (Identical with HPE 623.) Daily 8:05-10:00 June 22-July 17 (4 weeks)

640 Systems Analysis in Educational Administration (3) J. Yucker Designed for management personnel who wish to pursue modern ideas of system analysis and project management and the approaches which lead to effective planning, programming, and budgeting. Pre: college algebra, rudiments of management theory; consent of instructor. (Lab included; lab fee $2.50) Daily 11:35-12:50


700 Research Seminar in Educational Administration (3) R. Dunwell Basic concepts of research in educational administration. Study and discussion of significant topics and problems; preparation and reporting of scholarly paper. Required of Plan B M.Ed. candidates. Pre: consent of instructor. Daily 10:10-11:25

751 Community College Curriculum (3) J. Lombardi Essential role of community college in a democratic society is examined. Techniques in identifying community needs; curriculum planning for academic and occupational education; evaluation of total program. Pre: teaching experience and consent of instructor. (Identical with Ed CI 751.) Daily 10:10-11:25

780 Seminar in Educational Administration: Technical and Vocational (3) L. Zane Analysis of selected problems in school administration. Pre: 670, 680, 685 or consent of instructor. May be repeated. Daily 11:35-12:50

780 Seminar in Educational Administration: Community College (3) J. Lombardi Analysis of selected problems in school administration. Pre: 670, 680, 685, or consent of instructor. May be repeated. Daily 8:45-10:00

Educational Communications (Ed EC) EC 314, its equivalent, or consent of department chairman is prerequisite to all other courses.

314 Audio-Visual Techniques (2) L. Lum (2 sections) Nature and use of educational media as they relate to pupil needs in classroom learning situations. Identification, use, and evaluation of audio-visual instructional materials; application of known principles in educational media in classroom communications.

614 Audio-Visual Media Systems (3) W. Wiley Study of educational communications principles and their practical relationship to new educational media; techniques for design and utilization of combinations of media; both projected and non-projected, audio and visual, leading toward achievement of instructional goals; investigation of new teaching strategies; systems analysis, self-instructional and interrelated techniques. Daily 10:10-11:25

620 Introduction to Instructional Materials Production (3) P. Snipes Preparation of two- and three-dimensional instructional materials, charts, graphs, learning displays, pictures, slides, overhead transparencies, manipulative tactile materials. Daily 1:10-2:25

625 Production of Educational Film and Multimedia Presentations (3) G. Mendelson Planning and producing educational still and motion pictures, communication and aesthetic theories as related to planning and production. Emphasis on meeting curriculum goals through systematic development of film. Daily 10:10-11:25
**Educational Foundations (Ed EF)**

Students enrolled in colleges other than the College of Education are asked to confer with the department chairman before enrolling in 310.

310 Foundations of American Education (3) R. Anderson, (4 sections)
E. Beauchamp, V. Kobayashi
Contemporary educational theory and practice as related to major historical, philosophical, and social factors in American culture.
Daily (1) 7:20-8:35 (Beauchamp)
(2) 8:45-10:00 (Kobayashi)
(3) 8:45-10:00
(4) 11:35-12:50 (Anderson)

409 Culturally and Economically Disadvantaged Pupil (3) R. Fruehling
(2 sections)
Survey of social and psychological factors related to the culturally and economically disadvantaged pupil and his education. Review of local resources and facilities to assist these pupils. Pre: consent of instructor. (Identical with Ed EP 409.)
Daily 1:10-2:25

445 Educational Sociology (3)
Examination of development of theoretical and practical aspects of social structure and their relationship to education. Pre: 310 or 3 hrs. of sociology; consent of instructor.
Daily 11:35-12:25

498 Zen and Education (3) V. Kobayashi
Examination of philosophy and methods by which Zen teacher approaches problem of changes in world view of learner; consideration of possible relevance of Zen to contemporary teacher.
Daily 11:35-12:25

650 Historical Foundations of Western Education (3) G. Bereday
History of European thought and practice as basis for study of modern education.
Daily 8:45-10:00

651 History of American Education (3) S. Jaekel
(2 sections)
Introduction to history of American educational thought from the 17th century to present.
Daily (1) 8:45-10:00 (2) 10:10-11:25

652 History of Education in Hawaii (3) R. Stueber
From Cook's discovery to the present. Social and intellectual influences on development of Islands' culture; emphasis upon the role of public and private schools in developing a common language community. Pre: 310 or its equivalent.
Daily 10:10-11:25

660 Philosophy of Education (3) G. Frazier
(2 sections)
Philosophical considerations essential to theories of education. Pre: student teaching.
Daily (1) 7:20-8:35 (2) 10:10-11:25

671 Comparative Education: Asia (3) R. Anderson
Educational institutions, practices, and problems in Asian countries, viewed against backdrop of their traditional cultures.
Daily 8:45-10:00

683 Social Foundations of Education (3) G. Bereday
Impact on education of major social trends and forces operating in American society; social change and education. Pre: consent of instructor.
Daily 11:35-12:25

768 Seminar in Problems in Education (2) R. Clopton
Study and discussion of significant topics and problems. For Plan B M.Ed. candidates in final semester or summer session. Pre: consent of department chairman.
Daily 1:35-2:25

**Educational Psychology (Ed EP)**

EP 311 and 416 or their equivalents are prerequisites for all graduate courses in Educational Psychology.

Students enrolled in colleges other than the College of Education are asked to confer with the department chairman before enrolling in 311.

200 Mental Retardation and Mental Health Work-Study Program (6)
Study, observation, and supervised field experience of the emotionally and socially maladjusted, the mentally ill, and the mentally retarded in community and institutional settings. (Enrollment limited to those students selected to participate in the Summer Work-Study Program in Mental Health and Related Areas.)

311 Psychological Foundations (3) D. Engebretson, (3 sections)
H. Ayabe
Principles of learning and individual differences; relationships of these factors to classroom experience. Pre: Pay 100.
Daily (1) 7:20-8:35 (Engebretson)
(2) 8:45-10:00 (Ayabe)
(3) 10:10-11:25 (Ayabe)

404 Education of Exceptional Children (3) S. Feldman, D. McIntosh
(2 sections)
Survey of characteristics of children who deviate from average in mental, sensory, physical, social attributes; reviews adaptations made by schools to abilities and disabilities of exceptional children.
Daily (1) 8:45-10:00 (Feldman)
(2) 10:10-11:25 (McIntosh)

405 The Mentally Retarded (3) S. Feldman
Review of psychological, social, vocational problems related to mentally retarded children and their families.
Daily 11:35-12:50

408 The Emotionally Disturbed Child (3) J. O'Malley
(2 sections)
Study of behavioral characteristics, methods of identification and management of emotionally disturbed children in regular and special classes in public schools, private day schools, clinics, residential schools, hospitals.
Daily (1) 8:45-10:00 (O'Malley)
(2) 10:10-11:25

409 Culturally and Economically Disadvantaged Pupil (3) R. Fruehling
(2 sections)
Survey of social and psychological factors related to culturally and economically disadvantaged pupil and his education. Review of local resources and facilities to assist these pupils. Pre: consent of instructor. (Identical with Ed EF 409.)
Daily (1) 8:45-10:00 (2) 11:35-12:50

416 Tests and Measurements (3) D. Adkins, D. Ryans
(2 sections)
Theory and techniques of measurement and evaluation in education, including supervised experience in instrument development and analysis.
Daily (1) 8:45-10:00 (Ryans)
(2) 10:10-11:25 (Adkins)
429 Introductory Statistics (3) F. Bail
Introduction to statistical methods, with laboratory applications to educational and psychological data, especially scores on educational measurement devices and other indices of learning or behavioral change. Pre: one year of high school algebra or one college course in mathematics; consent of instructor; 311 and 416 desirable. Daily 10:10-11:25

432 Human Motivation and Education (3) T. A. Ryan

497 Introduction to Learning Disabilities (3) D. McIntosh
Introduction to the education of learning-disabled children. Survey course covering mental, physical and academic characteristics of learning-disabled children and a discussion of their programming, adjustment and school placement. Pre: 404, 416. Daily 8:45-10:00

498 Testing for Modern Language Instruction (3) Staff
Emphasis on testing the understanding, speaking, and reading skills in classrooms, and particularly, in language laboratories. Practical work projects with a minimum of lecturing. Stress on correlation of testing content and method with commonly used audio-lingual instructional materials in elementary schools, high schools and colleges. Pre: 416 or consent of instructor. Daily 10:10-11:25

601 Guidance in the School (3) W. Nunokawa
Basic principles of guidance; consideration of techniques, organization, materials, resources. Daily 7:20-8:35

602 Elementary School Guidance (3) H. Kozuma
Principles, techniques, organization of guidance services in elementary school. Daily 8:45-10:00

604 Occupational Information in Guidance (3) T. Gust
Occupational research and survey techniques; trends, sources of materials, use of occupational information in vocational guidance. Pre: 601. Daily 8:45-10:00

605 Problems of School Adjustment (3) T. Gust, H. Kozuma
(2 sections)
Principles of behavior affecting human relationships in school, with emphasis upon application to actual situations. Daily (1) 10:10-11:25 (Gust) (2) 11:35-12:50 (Kozuma)

606 Student Personnel Services in Higher Education (3) Staff
Philosophy, history, organization and administration of student personnel services at college and university levels, including admissions, housing, student activities, financial aids, placement, counseling, health services. Daily 11:25-12:50

609 Tests and Inventories in Guidance (3) W. Nunokawa

610 Counselling: Theory and Practice (3) D. Fullmer
Theories and techniques of counseling and psychotherapy as preparation for practicum and field work. Pre: 416 or equivalent course in tests and measurements, 601 or equivalent course in guidance, consent of instructor. Daily 8:45-10:00

614 Theory and Assessment of Intelligence (3) D. Lott
Theories of intelligence, psychometric and social issues in intelligence testing; use of individual intelligence examinations for assessment of educability. Pre: 416 or Psy 425. Enrollment in graduate programs in clinical, school or counseling psychology, education of exceptional children; consent of instructor. Daily 7:20-8:35

629 Educational Statistics (3) G. Fujita
Statistical inference including applications of parametric and non-parametric methods to educational problems. Pre: 429 or its equivalent. Daily 8:45-10:00

645 American College Student (3) Staff
Study of psycho-social characteristics of American college student and college environment, from viewpoint of student personnel work. Pre: 311, 416. Daily 7:20-8:35

672 Advanced Educational Psychology: Learning (3) I. Reid
Application of experimental evidence in learning upon major educational problems; analysis of research methods of classroom learning. Pre: consent of instructor. Daily 10:10-11:25

673 Advanced Educational Psychology: Psycho-Social Development (3) Staff
Research methods and findings involving classroom group structures, attitude and personality development, psycholinguistic behavior. Pre: consent of instructor. Daily 8:45-10:00

701(3) Seminar in Guidance: Counseling Theory (3) D. Engbrecht
Current issues and problems. Pre: 8 credits in guidance courses; consent of instructor. May be repeated for credit. Daily 10:10-11:25

710 Counseling: Group Theory and Practice (3) D. Fullmer
Theories and techniques of group counseling and psychotherapy as preparation for practicum and field work. Pre: 610 or equivalent preparation, basic course in guidance, tests and measurements, counseling theory-practice, and consent of instructor. Daily 10:10-11:25

768(3) Seminar in Educational Psychology: Measurement (3) D. Adkins
Current issues and problems. Pre: consent of instructor. May be repeated for credit. Daily 1:10-2:25

Health & Physical Education (HPE)
Medical Clearance Requirement: For HPE courses numbered 101-163, 233-236, 332-337, 433, 434, and 454, a student is required to submit a medical clearance issued by the University of Hawaii Student Health Service no later than Friday, June 19. For the procedure to obtain this clearance, see page 25.

103 Swimming: Beginning (1) G. Seichi, D. Gustuson (3 sections)
Adjusting to and immersing in water, floating, sculling; correct arm stroke, leg kick, breathing techniques and their coordination. Daily (1) 9:10-10:00 (Seichi) (2) 9:10-10:00 (Gustuson) (3) 10:10-11:00 (Seichi)
104 Swimming: Intermediate (1) G. Seichi
Perflecting and integrating basic strokes with added emphasis on swimming for distance and speed.
Daily 11:10-12:00

107 Tennis: Beginning (1) G. Krahenbuhl, J. Asato
Rules, etiquette, grip, forehand and backhand strokes, serving, volleying, singles and doubles play.
Daily (1) 7:45-8:35 (Krahenbuhl)
(2) 9:10-10:00 (Krahenbuhl)
(3) 10:10-11:00 (Asato)
(4) 11:10-12:00 (Asato)

110 Golf: Beginning (1) H. Vasconcellos
Rules, etiquette, grip, stance, drive, normal iron shots, approach shots, putting.
Daily (1) 7:45-8:35 (2) 9:10-10:00
(3) 10:10-11:00

111 Golf: Advanced (1) G. Seichi
Improving drive, fairway wood shots, long iron shots, control shots, trouble shots, putting, course management, competitive strategy, problems in rules. Green fees paid by students for play on courses.
MW 1:35-3:40

124 Dances of Hawaii (1) L. Kaina, E. Sharpe,
(9 sections) M. Vasconcellos
Background and fundamentals of hula. Selected dances with and without instruments.
Daily (1) 7:45-8:35 (Kaina)
(2) 7:45-8:35 (Sharpe)
(3) 7:45-8:35 (Vasconcellos)
(4) 9:10-10:00 (Kaina)
(5) 9:10-10:00 (Sharpe)
(6) 9:10-10:00 (Vasconcellos)
(7) 10:10-11:00 (Kaina)
(8) 10:10-11:00 (Sharpe)
(9) 10:10-11:00 (Vasconcellos)

135 Volleyball (1) M. Stevenson
Rules, serving, passing, setting-up, spiking, blocking, offensive and defensive team play strategy.
Daily 11:10-12:00

154 Tumbling and Rebound Tumbling (1) D. Gustuson
Single and combination stunts on tumbling mats and trampoline, balancing stunts; techniques of spotting; safety procedures.
Daily 10:10-11:00

160 Judo (1) H. Kawasaki
Rules, etiquette, method of falling and breaking the fall, simple throws and their counters, simple holds and breaking of such holds, randori. (Student must provide own gi.)
Daily 9:10-10:00

161 Aikido (1) G. Sakamoto
Rules, etiquette, basic rolls, simple holds and the breaking of such holds, specific physical conditioning exercises. (Student must provide own gi.)
Daily 7:45-8:35

162 Karate (1) R. Fajardo
(2 sections) Rules, etiquette, basic stances, blocks, thrusts, kicks, ippon kumite, and selected kata. (Student must provide own gi.)
Daily (1) 9:10-10:00 (2) 10:10-11:00

163 T'ai Chi Ch'uan (1) T.Y. Pang
Analytical and laboratory study of classic forms of T'ai Chi Ch'uan (advanced form of Kung Fa).
Daily 7:45-8:35

195 Modern Health: Personal and Community (2) J. Asato
Primarily for majors in health education, physical education and recreation. Mental-emotional health, family-living and scientific health information for personal and community health.
Daily 8:45-9:45
June 22-July 24 (5 weeks)

Courses numbered 201 and above are not open to lower division students.

231 Methods and Materials in Health Education (2) J. Ryan
Organization and content, methods and materials for health teaching in elementary and secondary schools. Pre: 201 or 202.
Daily 10:10-11:10
June 22-July 24 (5 weeks)

233 Physical Education: Elementary (3) J. Little
Content and methods for physical education in elementary school, emphasizing selection, planning, teaching, evaluation of movement exploration and physical activities.
Daily 8:45-10:15 (Hokulani School Auditorium)
June 22-July 24 (5 weeks)

476 Motor Learning and Performance (3) L. Smith
Daily 8:05-10:00
June 22-July 17 (4 weeks)

508 Current Trends in Recreation (3) D. Gray
Analysis of current problems and recent trends in field of recreation which contribute to change. For administrators, supervisors, directors, leaders, and graduate students in parks and recreation. Pre: 208 or equivalent; professional experience desirable.
Daily 8:05-10:00
June 22-July 17 (4 weeks)

603 Scientific Foundations of Physical Education (3) J. Little
Scientific laws and principles relevant to man's physical and social environment as related specifically to physical fitness and human movement. Pre: 203, 453, 454 and 463, or consent of instructor.
Daily 10:30-12:00
June 22-July 24 (5 weeks)

623 Administrative Problems in Physical Education (3) J. Hall
Current problems and recent trends in conduct of physical education programs in educational settings. For administrators, teachers, and graduate students in physical education and related fields. Pre: 423 or equivalent; consent of instructor. (Identical with Ed EA 623.)
Daily 8:05-10:00
June 22-July 17 (4 weeks)

663 Mechanical Analysis of Sports Activities (3) E. Chui
Analysis of variety of sports activities in terms of applications of fundamental principles of mechanics with consideration to teaching and research. Pre: basic background in mathematics and physics; consent of instructor.
Daily 10:20-11:50
June 22-July 24 (5 weeks)
ENGINEERING

Civil Engineering (CE)

270 Applied Mechanics I (3) T. Mitsuoka
Equilibrium of particles, rigid bodies, frames and machines; vectors, centroids, friction and moments of inertia. Prereq: Math 170.
Daily 8:45-10:00

699 Directed Research (arr.) Staff

800 Thesis (arr.) Staff

General Engineering (GE)

61 Graphical Communication (1) R. Hubbard
Orthographic and pictorial instrument drawing and sketching, dimensioning, auxiliary and section views. Intended for engineering students who have not had one year of high school mechanical drawing.
Daily (1) 9:10-10:00 (2) 10:10-11:00

251 Digital Computer Programming (2) R. Hubbard
Introduction to PL/I language and application to engineering problems using IBM 360. Prereq: credit or registration in Math 135 or consent of instructor. Not open to students with previous credit in PL/I.
Daily 7:45-8:35

MECHANICAL ENGINEERING

311 Thermodynamics (3) Staff
Daily 8:45-10:00

371 Mechanics of Solids (3) Staff
Analysis of deformable bodies. Definition of stress and infinitesimal strain. Linear elasticity. Stress, strain, and deformation of simple solids subjected to torsion, bending, and shear force. Prereq: CE 270.
Daily 10:10-11:25

699 Directed Reading or Research (arr.) Staff
Directed study for graduate students on subject of mutual interest to student and a staff member. Student must find faculty sponsor before registering. Prereq: consent of department chairman. May be repeated.

800 Thesis (arr.) Staff

OCEAN ENGINEERING

601 Ocean Engineering Laboratory (3) F. Munchmeyer
Design, construction and evaluation of an ocean engineering system. Field experience supplemented with appropriate theory. Prereq: consent of department.
Daily 1:00-4:00

INFORMATION SCIENCES (ISE)

491 Digital Simulation Techniques (2) G. Herman
Introduction to simulation; the use of special simulation languages; programming in a simulation language; statistical considerations and analysis of results; relation to queueing theory; applications in job shop organization; teleprocessing reliability and availability studies; file organization; shipping and transport; special purpose and continuous simulation languages.
Daily 10:10-11:00

ENGLISH (Eng)

100 Expository Writing (3) Staff
(12 sections)
A study of the process of effective exposition—discovering, interpreting, and evaluating data through observation and reading; deciding upon an appropriate organizational plan; choosing a voice and style suitable to the writer's audience and the occasion for writing—accompanied by practice in the analysis of expository pieces by professional writers.
Daily (1) 7:20-8:35 (7) 10:10-11:25
(2) 7:20-8:35 (8) 10:10-11:25
(3) 7:20-8:35 (9) 10:10-11:25
(4) 8:45-10:00 (10) 11:35-12:50
(5) 8:45-10:00 (11) 11:35-12:50
(6) 8:45-10:00 (12) 11:35-12:50

251 Major Works of British and American Literature (3) H. Hemmes, W. Dick,
American Literature (3) H. Topham, K. Truse,
From the Middle Ages to 1800; an introductory course for sophomores.
Daily (1) 7:20-8:35 (Hemmes)
(2) 8:45-10:00 (Dick)
(3) 8:45-10:00 (Topham)
(4) 10:10-11:25 (Truse)
(5) 11:35-12:50 (Kiser)

252 Major Works of British and American Literature (3) L. Wright, J. Dorn, P. Franz, W. Siverly,
American Literature (3) A. Edelstein
From 1800 to the present; an introductory course for sophomores.
Daily (1) 7:20-8:35 (Wright)
(2) 8:45-10:00 (Dorn)
(3) 10:10-11:25 (Franz)
(4) 10:10-11:25 (Siverly)
(5) 11:35-12:50 (Edelstein)

253 World Literature: To the Renaissance (3) S. Carter, E. Brawley,
S. Quinn, R. Friederich
(4 sections)
Major works of classical, Oriental, European and English literature.
Daily (1) 7:20-8:35 (Carter)
(2) 8:45-10:00 (Brawley)
(3) 10:10-11:25 (Quinn)
(4) 11:35-12:50 (Friederich)

254 World Literature: 1600 to the Present (3) S. Thompson, D. Schlieman,
T. Summersgill, W. Creed
(4 sections)
Major works of classical, Oriental, European, American and English literature.
Daily (1) 7:20-8:35 (Thompson)
(2) 8:45-10:00 (Schlieman)
(3) 10:10-11:25 (Summersgill)
(4) 11:35-12:50 (Creed)

255 Types of Literature (3) S. Kiser, M. Harman, S. Shrader,
C. Poverman, K. Sohl, C. Ahlstrom
(6 sections)
Practical criticism in the major genres of European and American literature. Short story, novel, literary essay, introduction to poetry (narrative).
Daily (1) 7:20-8:35 (Kiser)
(2) 7:20-8:35 (Harman)
(3) 8:45-10:00 (Shrader)
(4) 8:45-10:00 (Poverman)
(5) 10:10-11:25 (Sohl)
(6) 10:10-11:25 (Shrader)
(7) 11:35-12:50 (Ahlstrom)
(8) 11:35-12:50 (Poverman)
256 Types of Literature (3)  M.A. Lynch, J. Morrison, L. Lichty, S. Vaughn, J. LeDoux, J. Dorn
Practical criticism in the major genres of European and American literature. Drama, biography, poetry.
Daily (1) 7:20-8:35 (Lynch)
(2) 8:45-10:00 (Morrison)
(3) 8:45-10:00 (Lichty)
(4) 10:10-11:25 (Vaughn)
(5) 10:10-11:25 (LeDoux)
(6) 11:35-12:50 (Dorn)

309 Written Communication (3)  V. Kennedy, C. Ahlstrom, M. Durant, L. Lichty
Practice in informative, analytical, and persuasive writing. Open only to students in Business Administration and Home Economics. Prereq.: 100 and sophomore literature, or equivalent.
Daily (1) 7:20-8:35 (Kennedy)
(2) 8:45-10:00 (Ahlstrom)
(3) 10:10-11:25 (Kennedy)
(4) 10:10-11:25 (Durant)
(5) 11:35-12:50 (Lichty)

313 Introduction to Imaginative Writing (3)  P. Damon, W. Siverly
The basic principles of the writing arts explored through the composition of poems, short stories, and one-act plays.
Daily (1) 8:45-10:00 (Damon) (Siverly)
(2) 8:45-10:00 (Damon) (Siverly)

315 Advanced Expository Writing (3)  V. Hollingshead, L. Wright
Writing of essays from logical and rhetorical principles, especially modes of definition, assertion, proof. Emphasis on clarity, coherence, style.
Daily (1) 8:45-10:00 (Hollingshead)
(2) 10:10-11:25 (Wright)

320 Introduction to Language (3)  Staff
Examination of modern concepts of structure and use of language, with special reference to the English language.
Daily (1) 8:45-10:00 (2) 10:10-11:25

331 Introduction to Poetry (3)  B. Menikoff, J. Kau, M. Solomon
Written and oral analysis of imagery, sound, language, form and structure of poems, leading to increased awareness of nature of poetry.
Daily (1) 8:45-10:00 (Menikoff)
(2) 10:10-11:25 (Kau)
(3) 11:35-12:50 (Solomon)

335 Backgrounds of World Literature (3)  R. Friederich
Most important sources of European literary themes and allusions, including King James Bible and western European myth and legend.
Daily 8:45-10:00

336 Introduction to Literary Problems (3)  M. Solomon, C. Bouslog
Critical evaluation of the genres of literature, of various modes of analysis, of problems involved in literary perception.
Daily (1) 8:45-10:00 (Solomon)
(2) 10:10-11:25 (Bouslog)

401 Modern English Grammar (3)  Staff
Syntax of modern English examined within framework of recent linguistic scholarship.
Daily 8:45-10:00

402 History of the English Language (3)  L. WeUein
Introduction to older stages of English and processes by which Modern English evolved.
Daily 10:10-11:25

413 Forms and Theory in Writing Fiction (3)  P. Damon
Study of techniques of prose fiction from standpoint of the writer.
Daily 10:10-11:25

432 The English Novel (3)  V. Hollingshead
Historical and critical study of development of English novel. From Dickens to Hardy.
Daily 10:10-11:25

433 20th Century British Novel (3)  W. Creed
Daily 8:45-10:00

445 Shakespeare (3)  D. Bevington
Shakespeare's plays from the beginning to Hamlet.
Daily 11:35-12:50

446 Shakespeare (3)  T. Summersgill
Shakespeare's plays from Hamlet through the last plays.
Daily 7:20-8:35

454 Early 17th-Century English Literature (3)  J. Lowers
Poetry and prose of the 17th century to 1660, exclusive of the drama.
Daily 11:35-12:50

457 18th-Century English Literature (3)  J. Malaby
Poetry, prose (exclusive of the novel), drama from 1700 to 1740, with emphasis on Pope and Swift.
Daily 8:45-10:00

463 Victorian Literature (3)  R. Canary
Poetry and prose exclusive of the novel from 1832-1870.
Daily 8:45-10:00

469 Short Story (3)  B. Menikoff
A reading survey covering the development of the short story in English from Poe to the present.
Daily 10:10-11:25

471 American Literature (3)  A. Levy
A survey of American literature from the beginning to the Civil War.
Daily 7:20-8:35

472 American Literature (3)  J. Kau
A survey of American literature from the Civil War to the present.
Daily 11:35-12:50

476 20th-Century American Novel (3)  C. Bouslog, A. Edelstein
Development of American novel from 1900 to present.
Daily (1) 8:45-10:00 (Bouslog)
(2) 10:10-11:25 (Edelstein)

479 Studies in American Literature (3)  D. Turner
Black literature.
Daily 8:45-10:00

480 Literature of the Pacific (3)  Staff
The literature of the Pacific islands and Australia: Narratives of voyages and travels, translations of native folk literature, and short stories and novels by such writers as Melville, Stevenson, London, Becke, Nordhoff and Hall.
Daily 10:10-11:25

483 Modern Dramatic Literature (3)  R. Canary
European, Ibsen and Chekhov to Shaw, 1880-1920.
Daily 11:35-12:50
### ENGLISH LANGUAGE INSTITUTE (ELI)

(All ELI courses meet M-F, 10 weeks, June 15-August 21)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Time</th>
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<tbody>
<tr>
<td>60</td>
<td>Oral English for Foreign Students (0)</td>
<td>Staff</td>
<td>7:30-8:20 (2)</td>
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<td>61</td>
<td>English Structure for Foreign Students (0)</td>
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<td>62</td>
<td>Reading Program for Foreign Students (0)</td>
<td>Staff</td>
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<td>63</td>
<td>Writing Program for Foreign Students (0)</td>
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<td>71</td>
<td>Intermediate English Structure for Foreign Students (0)</td>
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<td>72</td>
<td>Intermediate Reading Program for Foreign Students (0)</td>
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<td>73</td>
<td>Intermediate Writing Program for Foreign Students (0)</td>
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### ENGLISH AS A SECOND LANGUAGE (ESL)

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<th>Course Title</th>
<th>Instructor(s)</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>597</td>
<td>Teaching English as a Second Language for Language Arts Teachers (3)</td>
<td>J. Wilson</td>
<td>7:20-8:35</td>
</tr>
<tr>
<td>610</td>
<td>Teaching English as a Second Language II (3)</td>
<td>H. Schaaf</td>
<td>8:45-10:00</td>
</tr>
<tr>
<td>630</td>
<td>(Pro) Seminar in Hawaiian English (3)</td>
<td>S. Tszukai</td>
<td>10:10-11:25</td>
</tr>
<tr>
<td>650</td>
<td>Psycholinguistics in 2nd Language Acquisition (3)</td>
<td>T. Rodgers</td>
<td>11:35-12:50</td>
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<tr>
<td>730</td>
<td>Seminar in Applied Linguistics I (3)</td>
<td>R. Whitman</td>
<td>1:10-2:25</td>
</tr>
</tbody>
</table>
301 Phonetics and Pronunciation Practice (3) Staff
Analysis of French phonological system. Practice and laboratory drill designed to improve the student's pronunciation. Pre: 101 or two years of high school French.
Daily 10:10-11:25 plus laboratory

306 Structure of French (3) Staff
Study of structure of contemporary French as analyzed by descriptive linguists. Pre: 202 or equivalent.
Daily 11:35-12:50

311 Advanced Conversation (3) Staff
Systematic practice designed to develop student's control of spoken French. Attention to further development to further vocabulary which will permit accurate and mature expression on variety of topics. Pre: 202 or equivalent.
Daily 8:45-10:00 plus laboratory

331 Survey of French Literature (3) Staff
Survey of French literature covering major authors and movements up to 1750. Pre: 311-312 with which either 331 or 332 may be taken concurrently.
Daily 8:45-10:00

735 Seminar in French Literature (3) Staff
Study of authors or a period. Pre: consent of chairman of graduate field.
Daily 10:10-11:25

GENERAL SCIENCE (Sci)

198 Technology, Ecology, and Man (4) W. J. Newhouse
Man's ecology in the past, present, and future as seen by an analysis of the interrelationships between science and technology, the means these provide for manipulation of the environment, and the effects of this manipulation on the environment and on human populations.
Daily 7:20-8:35
Lab (1) M 8:45-10:35 (11) W 10:45-12:35
(2) M 8:45-10:35 (12) W 10:45-12:35
(3) M 10:45-12:35 (13) Th 8:45-10:35
(4) M 10:45-12:35 (14) Th 8:45-10:35
(5) T 8:45-10:35 (15) Th 10:45-12:35
(6) T 8:45-10:35 (16) Th 10:45-12:35
(7) T 10:45-12:35 (17) F 8:45-10:35
(8) T 10:45-12:35 (18) F 8:45-10:35
(9) W 8:45-10:35 (19) F 10:45-12:35
(10) W 8:45-10:35 (20) F 10:45-12:35

Students will attend two laboratories per week, one from the group listed as Labs 1-10 and one from Labs 11-20.

620 Natural Science as a Human Activity (3) W. J. Newhouse
The scientist; productivity in science; comparison of several fields; anatomy of science; science and society.
Hrs. Arr.

GEOGRAPHY (Geog)

101 Elements of Physical Geography (3) J. Nasuti
Survey of man's natural environment; distribution and inter-relationships of climates; vegetation, soils and landforms. Laboratory problems in map interpretation and environmental analysis.
Daily 11:35-12:25
Laboratory (1) MW 1:10-4:00 (2) TTh 1:10-4:00
102 World Regional Geography (3)  C. Manchester
Geography of the world's major cultural regions; emphasis on geographic aspects of contemporary economic, social and political conditions.
Daily 7:20-8:35

151 Economic Geography (3)  A. Sommarstrom
Locations, characteristics and relationships of economic activities. Elements of resource management, location theory, transportation and urban geography. Problems of the developed and underdeveloped worlds.
Daily 8:45-10:00

300 Introduction to Climatology (3)  P. Prasad
Daily 7:20-8:35

314 Geography of the Tropics (3)  B. Murton
Analysis of physical environment and resource potential of tropics; problems of human use and occupancy.
Daily 8:45-10:00

326 Conservation of Natural Resources (3)  A. Sommarstrom
Daily 7:20-8:35

352 Geography of Japan (3)  C. Manchester
Regional synthesis of physical and cultural features which characterize economic, social, political geography of Japan. Emphasis on origins of these patterns.
Daily 10:00-11:25

355 Geography of South Asia (3)  B. Murton
Physical and human-use regions of India, Pakistan, Ceylon, Himalayan kingdoms. Geographic factors in history, politics, economics of the area.
Daily 11:35-12:50

356 Geography of Southeast Asia (3)  T. Luna
Southeast Asia in world economy. Human and physical resources basis and returns achieved by various methods of land utilization. National economies of continental and insular Southeast Asia, problems and prospects of modernization.
Daily 8:45-10:00

365 Geography of the Pacific (3)  H. Brookfield
Physical character of the Pacific and its islands; cultural, political, economic geography of Melanesia, Micronesia, Polynesia (except Hawaii).
Daily 10:10-11:25

650(4) Seminar in Geography of the Philippines (3)  T. Luna
Pre: consent of instructor. May be repeated.
Hrs. arr.

665 Seminar in Geography of the Pacific (3)  H. Brookfield
Investigation of geographic problems of Melanesia, Micronesia, Polynesia. Pre: consent of instructor. May be repeated.
Hrs. arr.

700 Seminar in Human Ecology (3)  R. Armstrong
Study and discussion of significant topics and problems. May be repeated.
Hrs. arr.

799 Directed Research (arr.)  Pre: consent of instructor.

800 Thesis Research (arr.)

GEOSCIENCES (Geosc)

200 Geology of the Hawaiian Islands (4)  A. Abbott
Survey of Hawaiian volcanism, rock types, land forms, coastal areas, ground water supply. Oahu field trips on Friday required; neighbor island trips optional and by special arrangement only.
Lecture: MTWTh 8:45-10:00
Field Trip: F 8:45-2:30

799 Directed Reading and Research (arr.)  Staff
Hrs. Arr.

800 Thesis Research (arr.)  Staff
Hrs. Arr.

GERMAN (Ger)

101 Elementary German (4)  Staff
(2 sections)
Intensive course in conversation, grammar, reading, writing. Language lab practice required daily.
Daily (1) 8:10-9:25; 9:35-10:25 plus laboratory
(2) 9:10-10:00; 10:10-11:25 plus laboratory

102 Elementary German (4)  Staff
Continuation of 101. Language lab practice required daily.
Daily 7:45-8:35; 8:45-10:00 plus laboratory

106 German for Reading Proficiency (3)  Staff
Designed to teach the student to read scholarly and technical German. Primarily for graduate students, but open to undergraduates with consent of chairman of department.
Daily 8:45-10:00

201 Intermediate German (3)  Staff
Intensive course in conversation, grammar, review, reading, composition. Pre: 102 or the equivalent. Language lab practice required daily.
Daily 7:20-8:35 plus laboratory

202 Intermediate German (3)  Staff
Continuation of 201. Language lab practice required daily.
Daily 11:35-12:50 plus laboratory

HAWAIIAN (Haw)

101 Elementary Hawaiian (3)  Staff
(2 sections)
Development of listening, speaking, reading, writing. Structural points introduced inductively. Daily laboratory work.
Daily (1) 1:10-2:25 plus laboratory
(2) 1:10-2:25 plus laboratory

201 Intermediate Hawaiian (3)  Staff
Continuation of 102. Reading of traditional texts. Daily laboratory work. Pre: 102 or equivalent.
Daily 1:10-2:25 plus laboratory
HISTORY (Hist)

151 World Civilization (3)  J. Connors
(2 sections)
Survey of the more significant political, social, economic, and
intellectual factors in the development of civilization 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
17th century.
Daily 11:10-10:11:25 plus lab (2) 11:35-12:50 plus lab
Labs 1-4 M 1:00-2:15
Labs 5-8 T 1:00-2:15
Labs 9-12 W 1:00-2:15
Labs 13-16 Th 1:00-2:15

152 World Civilization (3)  J. Connors
Continuation of the history of world civilization from the 17th
century to the present day.
Daily 7:20-8:35 plus lab
Lab 1 M 1:00-2:15
Lab 2 T 1:00-2:15
Lab 3 W 1:00-2:15
Lab 4 Th 1:00-2:15

281 Introduction to American History (3)  C. Cowing
Interpretive survey of United States history from the earliest
settlements to 1877.
Daily 8:45-10:00

282 Introduction to American History (3)  E. Beechert
Interpretive survey of U.S. history from 1877 to the present.
Daily 7:20-8:35

401 History of South Asia to 1000 A.D. (3)  J. P. Sharma
General historical survey of India, Pakistan, Ceylon from
earliest times.
Daily 8:45-10:00

402 History of South Asia, 1000 A.D. to Present (3)  Sharma
General historical survey of India, Pakistan, and Ceylon.
Daily 10:10-11:25

405 History of Southeast Asia to late
18th Century (3)  J. G. deCasparis
Historical survey of Southeast Asian Civilizations and states,
including Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia,
Indonesia and Philippines.
Daily 8:45-10:00

409 History of China to 1600 (3)  H. Lamley
Course of Chinese civilization from earliest times.
Daily 1:00-2:15

413 History of Pre-Modern Japan (3)  H. Varley
Historical survey of Japanese culture, government, economics,
institutions.
Daily 10:10-11:25

424 History of the Hawaiian Islands (3)  D. Johnson
General course, but with some detail. Emphasis on period of
monarchy. Interchangeable credit: Asian, Pacific or American.
Daily 8:45-10:00

425 The United States in the Pacific (3)  D. Johnson
Growth of economic and political interests and policies in
Pacific area. Interchangeable credit: Asian, Pacific or American.
Daily 10:10-11:25

426 The Ancient Near East (3)  W. Maurer
Survey of the social, religious, political, and literary history of
the peoples of Mesopotamia, Persia and the eastern Mediterran­
ean from Sumerian to pre-classical Greek times.
Daily 7:20-8:35

429 Roman Civilization (3)  M. Speidel
History, art, and culture of the Roman republic and the
Roman empire.
Daily 8:45-10:00

433 C. Julius Caesar (3)  M. Speidel
Caesar's impact on the political, social, and cultural history of
his epoch.
Daily 7:20-8:35

435 Renaissance and Reformation, 1300-1600 (3)  W. Ernest
Ideas and institutions in early period of commercial and
national development.
Daily 7:20-8:35

439 Europe in the 19th Century (3)  R. Cubberly
Major political, social, economic and intellectual trends in evo­
lution of Europe from Napoleon to the end of World War I.
Daily 7:20-8:35

440 Europe since Versailles (3)  A. Saville
Problems of contemporary Europe and their historical back­
ground.
Daily 7:20-8:35

459 Constitutional History of England (3)  W. Ernest
Anglo-Saxon institutions; Norman innovations; legal adminis­
trative, parliamentary development under Angevins; rise of
abinet system.
Daily 10:10-11:25

461 Colonial America to 1790 (3)  C. Cowing
Transit of European culture of North America, independence,
Constitution.
Daily 11:35-12:50

465 Troubled Peace:
U.S. History 1920-1941 (3)  E. Beechert
The twenties, depression and New Deal, isolationism and
involvement in World War II.
Daily 10:10-11:25

602 Seminar in Historiography (3)  A. Saville
History of history and historians.
Hrs. arr.

652 Seminar in Southeast Asian History
to 1600 (3)  J. G. deCasparis
Advanced reading and research. Island and mainland Southeas­
Asia. Pre: 405 or equivalent.
Hrs. arr.

665 Seminar in Pre-Modern
Japanese History (3)  H. Varley
Selected problems in Japanese history; principal sources of
bibliographic information.
Hrs. arr.
HUMAN RESOURCES DEVELOPMENT

Fashion Design, Textiles and Merchandising (FDM)

125 Fashion Analysis (3) M. Troxell
Dynamics of fashion; environmental factors influencing fashion demand; analysis of fashion trends; history, structure and terminology of the women's fashion industry.

Daily 10:10-11:25

213 Textiles (3) B. Walker
Fibers, yarns, fabric construction, finishes related to selection, use, care of textiles.

Daily 8:45-10:00

301 Man and Clothing (3) B. Walker
Sociological, psychological and economic implications of clothing and textiles for the individual and society, as seen in historic and contemporary perspective. Pre: Soc 151.

Daily 11:35-12:50

316 Advanced Pattern Designing (3) G. Furer

Daily 8:45-11:25

329 Field Experience (2) G. Furer, M. Troxell
Eight weeks' full time supervised internship in the fashion industry; comprehensive terminal report required. Pre: junior or senior standing; consent of instructor prior to May 15.

418 Costumes of South and Southeast Asia (3) O. Umbel
Historical development and characteristic features of traditional and folk costumes and fabrics of India, Pakistan, Thailand, Cambodia, Malaysia, Indonesia, the Philippines. Relation to custom and culture; impact of Western influence on contemporary dress. Pre: Hist 151-152.

Daily 8:45-10:00

Food and Nutritional Sciences (FN)

377 Institute on Foods of the Pacific (3) M. L. Ching, C. C. Chec
Designed to acquaint the student with food habits, customs, and cookery of nations bordering the Pacific. Chinese, Filipino, Hawaiian, Japanese and Korean foods will be prepared and served. One lecture period and two laboratory periods weekly. Pre: home economics course in foods, or previous experience in food preparation. Open to men and women upper division or graduate students.

Lab fee: $20.00

Lecture: M 10:10-12:30
Lab (1) TTh 10:10-12:30 (3) WF 10:10-12:30
(2) TTh 10:10-12:30 (4) WF 10:10-12:30

487 Nutrition as a Behavioral Science (3) M. Hill, N. Wenkam, A. Maretski
Interdisciplinary approach to the causes and consequences of food habits. Participants will be encouraged to develop novel and creative methods for integrating basic nutrition concepts into classroom activities and community nutrition programs.

Daily 8:30-11:30 Lab Daily 1:00-4:00
June 16-July 2

499 Directed Reading and Research (arr.) Staff

Food Service Administration (FSA)

283 Classical Food and Beverage Management (3) G. Hotchklin
Study of classical beverages, production characteristics in relation to food service planning and classical cuisine. Lab experience with gourmet and ethnic cookery. Pre: 281.

Daily 8:45-10:00

499 Directed Reading and Research (arr.) Staff

Human Development (HD)

231 Introduction to Human Development (3) S. Schwiters
Principles of development from birth to puberty. Emphasis on impact of family interaction; practical and social implications of existing knowledge from behavioral sciences. Observation of situations involving children. Course need not be taken in sequence with 232 and may be taken simultaneously. Pre: Psy 100 or 111-112.

Daily 8:45-10:00

232 Introduction to Human Development (3) C. Meredith, D. Brown
Principles of development from birth to puberty. Emphasis on impact of family interaction; practical and social implications of existing knowledge from behavioral sciences. Observation of situations involving children. Course need not be taken in sequence with 231 and may be taken simultaneously. Pre: Psy 100 or 111-112.

Daily 10:10-11:25 (Meredith)
(2) 11:35-12:50 (Lenzer)

341 Family Relationships (3) J. Allen
Study of courtship, marriage, and family relationships in the modern setting. Role confusion and conflict, freedom and authority, and value of the family to the individual will be explored.

Daily 11:35-12:50

345 Group Leadership (3) D. Brown
Sociological and psychological concepts pertaining to individual motivation and internal and external group forces. Application of group techniques to planning and conducting activities related to human resources development.

Daily 8:45-10:00

430 Work With Parents (3) J. Brandon
Study of parental behavior as function of individual personality and cultural and social context. Interpretation of research in behavioral sciences with view to policy and practices of working with parents. Field experience with parent groups in local community. Pre: senior standing and consent of instructor.

Daily 8:45-10:00

Nutrition (Nutr)

699 Directed Reading and Research (arr.) Staff

INDONESIAN (Ind)

111 Intensive Elementary Indonesian (6) S. Dardjowidjojo
Intensive course equivalent to Elementary Indonesian in academic year. Includes all four skills: listening, speaking, reading, and writing. In addition to 25 hours a week of class work for 6 weeks, two periods of laboratory drill daily required.

Daily 7:20-10:00; 12:30-2:25 plus laboratory

303 Accelerated Third-Level Indonesian (6)
Accelerated course equivalent to Third-Level Indonesian in academic year. Study of modern written texts. Introduction of Arabic script. Laboratory work. Pre: 204 or equivalent.

Daily 7:20-10:00; 12:30-2:25 plus laboratory
JAPANESE (Jap)

101 Elementary Japanese (3) Staff
(5 sections)
Development of four skills: listening, speaking, reading, and writing. Structural points introduced inductively. Language lab practice required daily.
Daily (1) 9:10-11:25 plus laboratory
(2) 9:10-11:25 plus laboratory
(3) 9:10-11:25 plus laboratory
(4) 9:10-11:25 plus laboratory
(5) 9:10-11:25 plus laboratory

111 Intensive Elementary Japanese (6) Staff
(2 sections)
Intensive course equivalent to Elementary Japanese in academic year. Includes all four skills: listening, speaking, reading, and writing. In addition to 25 hours a week of class work for 6 weeks, two periods of laboratory drill daily required. Pre: consent of instructor.
Daily (1) 7:45-10:00; 12:35-3:25 plus laboratory
(2) 7:45-10:00; 12:35-3:25 plus laboratory

201 Intermediate Japanese (4) Staff
(3 sections)
Continuation of 101-102. Language lab practice required daily.
Daily (1) 10:10-12:25 plus laboratory
(2) 10:10-12:25 plus laboratory
(3) 10:10-12:25 plus laboratory

301 Third-Level Japanese (3) Staff
(2 sections)
Study of modern spoken and written Japanese involving advanced structures, expressions, patterns, kyoiku kanji. Pre: 202 or equivalent.
Daily (1) 11:35-12:50 plus laboratory
(2) 11:35-12:50 plus laboratory

303 Accelerated Third-Level Japanese (6) Staff
Study of modern spoken and written Japanese involving advanced structures, expressions, patterns, kyoiku kanji. In one session, content of 301-302 covered. Pre: 204 or equivalent.
Daily 10:10-11:25; 11:35-12:50 plus laboratory

362 Japanese Literature in Translation—Modern (3) Staff
Historical survey from 1868 to present, with emphasis on analysis. Knowledge of Japanese not required. Pre: two semesters of literature in English department.
Daily 1:10-2:25

401 Fourth-Level Japanese (3) Staff
Study of modern spoken and written Japanese involving complicated structures, expressions, patterns, tooyo kanji. Pre: 302 or equivalent.
Daily 11:35-12:50 plus laboratory

451 Structure of Japanese (3) Y. Kusanagi
Phonology, morphology, syntax of modern colloquial grammar. Pre: 202 or equivalent.
Daily 2:35-3:50

455 Topics in Japanese Grammar (3) N. Fujioka
Analysis of topics in modern colloquial Japanese grammar. Pre: 302 or equivalent.
Daily 1:10-2:25

470 Language and Culture of Japan (3) J. Young
Extensive exposure, chiefly through tape recordings, classroom conversation and outside readings, to culture, history and institutions of Japan.
Daily 8:45-10:00

JOURNALISM (Journ)

150 The Press and Society (3) Staff
Analysis and evaluation of American journalism as shaped by historical, legal, economic, social forces; comparison/contrast with the world press.
Daily 10:10-11:25

KOREAN (Kor)

111 Intensive Elementary Korean (6) Staff
Intensive course equivalent to Elementary Korean in academic year. Includes all four skills: listening, speaking, reading, and writing. In addition to 25 hours a week of class work for 6 weeks, two periods of laboratory drill daily required.
Daily 7:45-10:00; 1:10-3:50 plus laboratory

LATIN (Latin)

101 Elementary Latin (3) Staff
Vocabulary and grammar, with reading of simple Latin.
Daily 8:45-10:00

201 Intermediate Latin (3) Staff
Review of grammar, reading of selections from prose and poetry. Pre: 102 or equivalent.
Daily 10:10-11:25

LIBRARY STUDIES (LS)

All library studies courses meet twice each day in a morning and afternoon session. Registration in library studies courses requires the approval of the Dean of the Graduate School of Library Studies. Classes will meet on Registration Day.

601 Bibliography and Reference Sources (3) L. Wageman
An analysis of the means by which the availability and content of graphic materials are recorded; the characteristics and problems of national and subject bibliography, and the function of the librarian as bibliographer. Introduction to materials and methods for locating information in general reference sets, specific fact sources, periodical indexes, abstract series; analytical and searching procedures for simple inquiries.
Daily 7:45-9:00; 1:00-2:15 June 15-July 3

602 Advanced Reference Sources (3) W. Williamson
Pre: LS 601 Bibliography and Reference Sources. Continued discussion of the various types of general reference tools. Introduction to the subject approach in reference work through the three major areas: the sciences, the social sciences, and the humanities. Each area is analyzed in terms both of the characteristics of the literature and of the typical problems and methods of reference work; and the major works in each area are studied as examples.
Daily 7:45-9:00; 1:00-2:15 July 6-24

605 Basic Cataloging and Classification (3) A. Kamida
Designed as an introduction to cataloging in the research or large general library and as a terminal course in cataloging for the school or small popular library. Covers principles and practice of descriptive cataloging, the structure and application of the Dewey Decimal Classification and Sears' List of Subject Headings, and the use of printed cards.
Daily 7:45-9:00; 1:00-2:15 June 15-July 3
610 Social Functions of Libraries (3)  S. K. Vann
An introduction to librarianship. The four aspects of the course include: librarianship as a profession, the history of books and libraries, a survey of current programs and trends in American libraries, and international aspects of librarianship.
Daily: 7:45-9:00; 1:00-2:15
July 6-24

615 Building Library Collections (3)  W. Williamson
Pre: LS 601 Bibliography and Reference Sources. Criteria for evaluating and selecting library materials, devising and maintaining an acquisition program, and the structure of the book trade. Findings of studies of library use are drawn upon where applicable.
Daily: 10:45-12:00; 4:00-5:15
June 15-July 3

650 Administration of Libraries (3)  Y. Suzuki
The organization and human factors which make for effective library service. Covers governmental relations, policy making, structure of jobs and departments, communication and coordination, staffing, financing, and housing. Case studies are used for instructional purposes.
Daily: 9:15-10:30; 2:30-3:45
July 6-24

681 Reading Materials for Children (3)  V. Coughlin
Historical background of children's literature. Selection aids, criteria for evaluating, and evaluation of contemporary children's books and recordings on basis of development needs of children through the sixth grade. Opportunity to develop skills in storytelling.
Daily: 10:45-12:00; 4:00-5:15
July 6-24

682 Reading Materials for Youth (3)  V. Coughlin
Evaluation of books and magazines for young people of junior and senior high school age; book selection tools and criteria for judging. Developmental needs of young people with attention to materials for exceptional readers. Methods of stimulating reading such as book lists and book talks.
Daily: 15-15:30; 2:30-3:45
June 15-July 3

683 Service for Children and Young People (3)  E. Schofield
Pre: LS 615 Building Library Collections. Organization and provision of services from preschool through young adult years, considering both school and public libraries. Special attention to preparation of lessons in use of books and libraries.
Daily: 9:15-10:30; 2:30-3:45
July 6-24

705 Asian Reference Sources (3)  G. R. Nunn
Bibliographical and reference tools and services in Asian countries with special attention to source materials in other than Western languages.
Daily: 10:45-12:00; 4:00-5:15
July 6-24

716 International Publishing and Bibliography (3)  Vann
Pre: LS 615 Building Library Collections. A survey of the problems of selecting and acquiring foreign materials for the collections of American and Asian libraries. Covers publishing programs of international organizations, such as the United Nations, international agreements affecting the acquisitions programs of libraries. Surveys the publishing and bookselling programs of various countries (excluding Britain, Canada and the U.S.). Examines selected representative bibliographic sources of various countries.
Daily: 9:15-10:30; 2:30-3:45
June 15-July 3

LINGUISTICS (Ling)

102 Introduction to the Study of Language (3)  J. H. Ward
Nature and workings of language; its role in culture and history.
Daily: 2:35-3:50

320 General Linguistics (3)  T. Manley
Approaches, concepts, component areas of linguistics; its development as a science.
Daily: 7:20-8:35

621 Phonology (3)  L. Howard
Phonological theory and problems of analysis. Prereq: 421 or equivalent.
Daily: 8:45-10:00

630 Field Methods (3)  M. L. Forman
Work with native speakers of lesser-known languages to develop methods and techniques for collection and analysis of linguistic data. Prereq: 421, 422. May be repeated.
Daily: 10:10-11:25

645 Introduction to Comparative Method (3)  A. Lyovin
Fundamentals of comparative and historical method in linguistics with emphasis on Indo-European and attention to non-Indo-European languages having few or no written records. Prereq: 421, 422 or consent of instructor.
Daily: 11:35-12:50

650 Advanced Linguistic Analysis (3)  C. J. N. Bailey
Advanced problems and discussion of theory, techniques, procedures in linguistics. Prereq: 621, 622 and consent of instructor.
Daily: 1:10-2:25

699 Directed Research (arr.)
Pre: graduate standing; consent of instructor. 
Hrs. arr.

MATHEMATICS (Math)

(5 sections)
To acquaint non-specialists with the position of mathematics in modern culture. Open to freshmen and sophomores who have not earned credit in 111 or above.
Daily: (1) 7:20-8:35 (Nash)
(2) 8:35-10:00 (Rogers)
(3) 10:10-11:25 (Koehler)
(4) 10:10-11:25 (Hilden)
(5) 11:35-12:50 (Hilden)

111 Introduction to Mathematics (3)  C. H. Brase, E. Spielvogel
(4 sections)
Study of structure and concepts of number systems. (Primarily for Education majors.)
Daily: (1) 7:20-8:35 (Brase)
(2) 8:45-10:00 (Spielvogel)
(3) 10:10-11:25 (Spielvogel)
(4) 11:35-12:50 (Brase)

201 Finite Mathematics (3)  D. H. G. Nash, K. Rogers
(2 sections)
Algebra of sets, elementary probability theory, vectors and matrices, linear programming, theory of games. Prereq: 134 or equivalent.
Daily: (1) 8:45-10:00 (Nash)
(2) 10:10-11:25 (Rogers)
### FIRST TERM  Mathematics—Microbiology

#### Ten Weeks, June 15-August 21

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Days</th>
<th>Time</th>
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<tbody>
<tr>
<td>232</td>
<td>Ordinary Differential Equations (3)</td>
<td>R. A. Hirschfeld</td>
<td>Daily</td>
<td>8:45-10:00</td>
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<td></td>
<td></td>
<td>C. M. Weinbaum</td>
<td></td>
<td>11:35-12:50</td>
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<tr>
<td>301</td>
<td>Introduction to Numerical Analysis (3)</td>
<td>E. H. Mookini</td>
<td>Daily</td>
<td>10:10-11:25</td>
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<td>371</td>
<td>Elementary Probability Theory (3)</td>
<td>E. A. Bertram</td>
<td>Daily</td>
<td>7:20-8:35</td>
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<td>N. Nobusawa</td>
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<td>11:35-12:50</td>
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<tr>
<td>205</td>
<td>Calculus I (4)</td>
<td>R. H. Clark, R. R. Colby, R. B. Levow</td>
<td>MTWF</td>
<td>7:20-8:35</td>
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<td></td>
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<td>E. E. Groth, R. B. Levow</td>
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<td>8:45-10:00</td>
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<td>J. K. M. Siu</td>
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<td>10:10-11:25</td>
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<tr>
<td>231</td>
<td>Multi-Variable Calculus (3)</td>
<td>R. G. Griswold</td>
<td>Daily</td>
<td>10:10-11:25</td>
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<tr>
<td></td>
<td></td>
<td>M. C. Y. Lee, H. B. Reiter</td>
<td>MTWF</td>
<td>8:45-10:00</td>
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#### Courses Offered

- **311 Linear Algebra (3)**
  - R. R. Colby, R. Gellar
  - MWF (1) 7:20-8:35 (Gellar)
  - (2) 8:45-10:00 (Colby)

- **351 Foundations of Euclidean Geometry (3)**
  - A. Mader
  - Axiomatic Euclidean geometry and introduction to axiomatic method. Pre: 231 or consent of department.
  - MWF 7:20-8:35

- **412 Abstract Algebra (3)**
  - R. B. Levow
  - Introduction to basic algebraic structures including groups, rings, fields. Pre: 311.
  - MWF 10:10-11:25

- **431 Advanced Calculus I (3)**
  - H. B. Reiter
  - Topology of $\mathbb{R}^n$, theorems on continuous functions, development of Riemann integral, sequences and series, uniform convergence, implicit function theorems, differentials and Jacobians. Pre: 232, 311.
  - MWF 10:10-11:25

#### MEDICAL TECHNOLOGY (MT)

- **466 Internship (4)**
  - L. Wulff
  - Internship in an affiliated hospital. Pre: three years of prescribed courses and at least one semester on U.H. campus.
  - Hrs. arr.

#### MICROBIOLOGY (Micro)

- **130 General Bacteriology (3)**
  - P. Baumann
  - Fundamentals of bacteriology with emphasis on microorganisms as they affect people and their possessions. Not open to those who have credit in 351.
  - Daily 8:45-10:00

- **351 Procaryotic Biology (3)**
  - L. Berger
  - Study of bacteria: their anatomy, chemistry, physiology and development; their roles in natural processes. Pre: Biol 250; Chem 241-242 or 244, 246; or consent of instructor; Math 205 desirable.
  - Daily 10:10-11:00
  - Lab MWF 1:00-3:30

- **665 Electron Microscopy (2)**
  - R. Allen
  - Introduction to use of electron microscope and preparative techniques. Pre: 661 and consent of instructor.
  - Hrs. arr.

- **699 Directed Research (arr.)**
  - Selected problems in microbiology. Pre: consent of instructor.

- **795 Advanced Topics—Entropy for Biologists (3)**
  - H. Morowitz
  - Concepts of thermodynamics, with emphasis on understanding the foundation of thermodynamics and how it relates to biology. Although calculus is a prerequisite, the emphasis is on understanding the basic ideas rather than on manipulatory techniques. Included is a discussion of information entropy and biological organization. Open to advanced seniors. Pre: Math 206.
  - Daily 10:10-11:25

- **800 Thesis Research (arr.)**
MUSIC (Mus)

140 Recreational Music (2)  R. Lum
Elementary music skills including instruction on ukelele. For recreation majors but open to others.
Daily 9:10-10:00

160 Introduction to Music Literature (3) E. Spielman, A. P. Brown
(2 sections)
Elements, styles and forms of music, from listener's point of view.
Daily (1) 7:20-8:35 (Spielman)
(2) 8:45-10:00 (Brown)

170 Music in World Culture (3) W. Pfeiffer
Role of music in societies—ancient and modern, sophisticated and non-sophisticated, Western and non-Western, child and adult. Representative styles and regional characteristics.
Daily 10:10-11:25

180 Fundamentals of Western Music (3) L. Rowell
Fundamental concepts in organization of music as expressive medium in Western Culture. Roles of composer, performer and listener. Notation as mode of communication. Discovery and verification of ideas through laboratory of experience.
Daily 11:35-12:50

325 Conducting (1)  R. Lum
Problems in directing instrumental and choral ensembles and organizations. Score reading, rehearsal techniques and basic interpretive problems. Pre: 182.
Daily 7:45-8:35

364 Topics in Contemporary Music (2) M. Feldman
Study of special problems in contemporary music literature. May emphasize specific composers, forms, material or media. May be repeated. Pr: 160 or 180 or 181.
Daily 9:10-10:00

401(12) Ensemble: Chamber Singers (1) P. Crabtree
Pre: consent of instructor.
Daily 1:35-2:25

401(82) Ensemble: Contemporary (1) P. Coraggio
Pre: consent of instructor.
Hrs. arr.

402 University Concert Choir (1) P. Crabtree
Performance of a cappella literature and major choral works. May be repeated for credit.
Daily 11:35-12:25

409 University Concert Band (1) R. Lum
Performance of major band literature including works by contemporary composers. Pre: audition or consent of instructor.
Daily 11:35-12:25

420(12) Music Literature Laboratory: Choral (2) P. Crabtree
Daily 10:10-11:25

420(52) Music Literature Laboratory: Brass Ensemble (2) J. Shoemaker
Daily 10:10-11:25

457 Asian and Pacific Music in Education (2) D. Gillett
Musical concepts in songs, dances and instrumental music of Asia, Hawaii and other Pacific islands appropriate for elementary school. Pre: 352 or 353; teaching experience or consent of instructor.
Daily 8:20-10:00
June 15-July 2

464 Twentieth Century Music (2) A. P. Brown, E. Spielman
Study of major styles of composers from Debussy to present. Pre: 160 or 170 or 180 or 181, or consent of instructor.
Daily 11:35-12:35

497 Symposium in Music Composition (2) M. Feldman, J. Yuasa
Original composition with discussions of specific approaches to creative writing. Pre: one year of undergraduate composition at the junior or senior level; 487-488.
Daily 1:35-2:25

519 Music for Elementary Teachers (3) F. Uchima
Music fundamentals; basic music skills and theory with emphasis on reading music. Sight singing, ear training through melodic and rhythmic dictation, analysis of simple song forms, study of basic harmony with direct application to classroom instruments.
Daily 10:10-11:25

557 Polynesian Music in Music Education (3) D. Gillett
Daily 7:20-10:00
July 6-24

600(5) Music Education Seminar (3) J. Shoemaker
Selected problems in music education. Pre: consent of instructor. May be repeated.
Daily 7:20-8:35

Applied Music

121 Class Voice (1) R. Vine
Class instruction in voice. Practice facilities in Music Building. Course fee $25.
Hrs. arr.

125(1) Elementary Piano Class (1) R. Pfeiffer
(2 sections)
Basic principles of piano performance. Relevant problems in piano literature at elementary level.
Daily (1) 9:10-10:00 (2) 10:10-11:00

127(79) Asian Instruments Class: Koto (1) K. Mikami
Course fee $25.
Hrs. arr.

131, 231, 431 Individual Instruction (1) For non-music or music majors. May be repeated. Course fee $55.
Hrs. arr.
OCEANOGRAPHY (Ocean)

201 Science of the Sea (3)  E. Stroup
Introduction to biological, geological, chemical and physical aspects of oceanography. Based on classroom lectures and use of oceanographic equipment and techniques at sea aboard ship and in nearshore zone. One Saturday field expedition required.  MTThF 10:10-11:25

699 Directed Research (arr.)  Staff
Pre: consent of instructor.

800 Thesis Research (arr.)  Staff
Pre: consent of adviser.

PHILOSOPHY (Phil)

100 Introduction to Philosophy (3)  H. McCarthy
Problems, methods, fields of philosophy. Daily 7:20-8:35

210 Introduction to Logic (3)  J. Winnie
Principles of modern deductive logic. Daily 10:10-11:25

310 Twentieth Century Philosophy (3)  R. Moore
Survey of recent developments in Western philosophy. Daily 8:45-10:00

315 Ethical Theory (3)  R. Moore
Comparative analysis of ethical theory in theological, legal, literary, scientific, social, as well as philosophical sources indicating relevance of ethical theory to processes of decision making. Daily 11:35-12:50

420 Philosophy of Art (3)  W. Sacksteder
Study of art from points of view of creation, appreciation, criticism. Particular attention to painting, sculpture, music, poetry. Daily 8:45-10:00

425 Philosophy in Literature (3)  H. McCarthy

470 Chinese Philosophy (3)  C. Y. Cheng
Historical survey of important philosophical schools and tendencies in China, ancient and modern. Daily 10:10-11:25

725 Seminar in Modern Classical Philosophy (3)  W. Sacksteder
(Kant) Pre: graduate standing; consent of instructor. MW 1:35-4:35

740 Seminar in Philosophy of Science (3)  J. Winnie
(Selected Problems) Pre: graduate standing; consent of instructor. TF 1:35-4:35

780 Seminar in Comparative Philosophy (3)  C. Y. Chang
(Heidegger and Taoism) Pre: graduate standing; consent of instructor. TTh 1:35-4:35

PHOTOGRAPHY (Photo)

100 Principles of Photography (2)  F. Haar
Designed primarily for those with very little photography experience. History and science of photography. Construction and use of camera; image formations; lenses, 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 required to have their own cameras. MW 1:00-2:15

PHYSICS (Phys)

100 Survey of Physics (3)  S. R. Hwang
Introduction to physics; basic concepts. Not open to those with previous college physics or experience beyond Math 134. Daily 11:35-12:50

101 Laboratory (1)  W. Ridgway
Simple experiments in basic concepts of physics. Pre: credit or concurrent enrollment in 100. TF 12:50-3:50

110 Astronomy (3)  R. Wolstencroft
Survey of nature of astronomical universe, with much emphasis on scientific method and development of scientific thought. Pre: high school trigonometry. Daily 8:45-10:00

160 College Physics (3) Lab (1)  C. Hayes, W. Ridgway
Fundamental principles, theories, experimental methods. Pre: credit or registration in Math 134. Daily 7:20-8:35 (Hayes) Lab MTh 8:45-11:25 (Ridgway)

170 General Physics I (4)  Staff

171 General Physics Lab I (1)  R. McElhaney
Experiment analysis in mechanics and thermodynamics. Pre: credit or registration in 170. MTh 12:50-3:50

272 General Physics II (3)  S. R. Hwang
Electricity and magnetism; wave motion; optics. Pre: 170, 171. Daily 7:20-8:35

273 General Physics Lab II (1)  R. McElhaney
Experimental analysis in electricity, magnetism and optics. Pre: credit or registration in 272. TF 8:45-11:25

274 General Physics III (3)  C. Hayes
Relatively, introduction to quantum mechanics, atomic and nuclear physics. Pre: 272, 273, or 160, 161; credit or registration in Math 231. Daily 10:10-11:25

399 Individual Work in Advanced Physics (arr.)  Staff

799 Directed Research (arr.)  Staff
PHYSIOLOGY (PhysI)

699 Directed Research (arr.) Staff
800 Thesis Research (arr.) Staff

POLITICAL SCIENCE (PolSe)

110 Introduction to Political Science (3) H. Kariel
Introduction to political problems, systems, ideologies, processes.
Daily 8:45-10:00

300 Political Thought (Contemporary Political Thought) (3) H. Kariel
A critical discussion of current ideologies in the light of contemporary political experience.
Daily 10:10-11:25

301 Political Thought (Political Theory) (3) D. Neubauer
This course will be concerned with problems in contemporary empirical theory.
Daily 8:45-10:00

305 Topics in Political Thought (Political Futuristics) (3) J. Dator
This course is intended to be an introduction to political futuristics—the study, forecasting, design and realization of alternate socio-political values, environments, and organisms for the immediate and distant future.
Daily 10:10-11:25

320 International Relations (Concepts and Principles of International Politics) W. Levi
An introductory survey.
Daily 7:20-8:25

325(1) Topics in International Relations (U.S. Policy in Southeast Asia) (3) O. Lee
Lectures, student reports, and class discussion on the political, economic, and military significance of Southeast Asia as seen by the U.S. government, and the resulting strategies and tactics in U.S. policy toward Southeast Asia and relevant other entities such as Communist China. Mid-term and final exams. No term paper.
Daily 8:45-10:00

325(2) Topics in International Relations (War/Peace Attitudes) (3) D. Krieger
A survey of the correlates of war/peace attitudes, and their relationship to the foreign policy decision making process.
Daily 8:45-10:00

330 Policy Formation (Sources & Consequences of Political Conflict) (3) R. Cahill
Extended analysis of personalities, institutions and ideologies as components of political systems and policy-making processes. Emphasis on identifying conditions which foster or inhibit individual effectiveness in political action. Additional emphasis on the bias inherent in any and all political institutions and on political change including revolution, as response to such bias.
Daily 10:10-11:25

333 American Government (3) D. Neubauer
A conceptual analysis of the American political system with special attention to the prospects for democracy in American political life.
Daily 11:35-12:50

335 Topics in Policy Formation (Personality and Political Behavior) (3) D. Krieger
Survey and analysis of personality predispositions toward political activism, ideological orientation, decision making in domestic and foreign policy, etc.
Daily 10:10-11:25

340 Comparative Government and Politics (Comparative Political Culture) (3) L. Alschuler
Introductory course in comparative politics with emphasis on these topics: the political system, political development, political legitimacy, political instability. Provides opportunities for gaining substantive knowledge of selected developed and underdeveloped countries as well as an introduction to the political research process.
Daily 11:35-12:50

341 Comparative Government and Politics (3) R. Stauffer
Application of the comparative method in the study of the processes of political development and nation-building; empirical data will be largely drawn from Asia.
Daily 10:10-11:25

345(1) Topics in Comparative Government and Politics (Japanese Politics) (3) Y. Kuroda
The course will be divided roughly into three parts. (1) Review those aspects of Japanese society that are most significantly related to her political system. (2) Describe how the political system is structured and how it works in Japan. (3) Examine the decisional outcomes of Japan's political system, and deal with a number of problems facing Japan today and study the question of the future of Japan.
Daily 11:35-12:50

345(2) Topics in Comparative Government and Politics (Government and Politics of South and Southeast Asia) (3) R. Stauffer
Analysis of changing political processes and institutions in the nations of South and Southeast Asia.
Daily 7:20-8:25

600 Scope and Methods of Political Science (3) R. Cahill
The subject matter of this course is Political Science whose subject matter, in turn, is Politics. Purpose is to identify and analyze the scope and methodology characterizing the discipline of political science as it is practiced today in the United States: central concepts, questions, paradigms, models, techniques of measurement and data analysis.
Daily 10:10-11:25

630 International Relations (3) W. Levi
Analysis of East Asia's international politics, mainly since 1945 and with special emphasis upon China.
Daily 10:10-11:25

640 Comparative Government and Politics (The Politics of Violence and Non-Violence) (3) L. Alschuler
In this course the basic aim is to understand social revolution in the modern world. The conditions and consequences of revolution are examined through case studies and cross-national studies of conflict in the developed as well as the underdeveloped countries. Questions of importance to be discussed are: what is the role of economics, ideology, and violence in revolution?
Daily 8:45-10:00

PSYCHOLOGY (Psy)

Psychology 100 or the equivalent is prerequisite to all other psychology courses listed below.

100 Survey of Psychology (3) R. Blanchard, G. Tanabe
(2 sections)
Principles of human behavior, individual differences, motivation, emotion, perception, learning.
Daily (1) 7:20-8:25 (Tanabe)
(2) 11:35-12:50 (Blanchard)
113 Statistical Techniques (3) J. M. Digman
Frequency distributions; graphic methods, central tendency; variability; correlation; reliability; tests of significance. Pre: two years of high school algebra or equivalent. Pre: 100.
Daily 8:45-10:00

214 Learning and Motivation (3) J. Hebert
Major conditions influencing learning and forgetting; the role of practice, reward, motivation, drive and emotion; theoretical interpretations of learning and motivation. Pre: 100, 112.
Daily 8:45-10:00

215 Sensory Processes (3) J. Hebert
Psychophysics; vision, audition, taste, smell. Pre: 100, 112.
Daily 11:35-12:50

320 Developmental Psychology (3) G. Tanabe, (2 sections) H. Stevenson
Emotional, mental, physical, social development from infancy to adulthood; interests and abilities at different age levels. Pre: 100.
Daily (1) 7:20-8:35 (Stevenson)
(2) 10:10-11:25 (Tanabe)

321 Psychology of Personality (3) W.E. Vinacke
Scientific study of personality, its meaning, assessment, development, relation to cultural-social determinants. Pre: 100.
Daily 10:10-11:25

423 History of Psychology (3) J. Nygaard
Background of modern psychology. Origin and development of contemporary points of view. Pre: 100, 112.
Daily 11:35-12:50

424 Abnormal Psychology (3) I. Sarason
Nature and causes of psychoneuroses and psychoses; abnormalities of intelligence; psychotherapy. Pre: 100.
Daily 8:45-10:00

428 Social Development of Children (3) R. Dubanoski
Survey of the socialization process and acquisition of social behavior. Pre: 320.
Daily 10:10-11:25

430 Complex Human Learning (3) K. A. Minke
Extension of principles of learning (theory and research) to significant functional human behavior. Principles and methods of experimental psychology of learning, and findings of behavioral sciences, used to constitute a general conception of human behavior basic to various areas of study. Pre: 100.
Daily 8:45-10:00

431 Verbal Learning and Memory (3) C. N. Cofer
Theories, models, and mechanisms of verbal learning and memory, basic variables, research procedures, design, and methodology. Pre: 100.
Daily 11:35-12:50

432 Psychological Aspects of War and Peace (3) H. H. Mansson
Examination of social and personal factors involved in movements toward war and peace. Pre: 100.
Daily 7:20-8:35

666 Psychology and Social Issues (3) A. Marsella
Conflict, dissent, community issues, problems; social change and its relation to mental disorder.
Daily 11:35-12:50

675 Behavior Assessment (2) Staff
Principles and methods of assessing behavior, such as direct observation, interviewing, psychological examination. Pre: consent of instructor.
Daily 10:10-11:25

PUBLIC HEALTH (PH)

791 Advanced Public Health Practice (3) Staff
Open only to public health degree candidates. Hrs. arr.

RELIGION (Rel)

150 Introduction to the Study of World Religions (3) S. C. Crawford
Introduction to world's living religions—Hinduism, Buddhism, Shinto, Confucianism, Taoism, Judaism, Christianity, Islam.
Daily 8:45-10:00

485 Ethics in Asian Religions (3) S. C. Crawford
A comparative analysis of ethical thought and practice in cultures and of persons shaped by the major religions of Asia.
Daily 10:10-11:25
RUSSIAN (Rus)

101 Elementary Russian (4)  Staff
Intensive course in conversation, grammar, reading, writing. Language lab practice required daily.
Daily 7:20-8:35; 9:10-10:00 plus laboratory

201 Intermediate Russian (3)  Staff
Intensive course in conversation, grammar review, reading, composition. Pre: 102 or equivalent. Language lab practice required daily.
Daily 10:10-11:25 plus laboratory

SOCIOLOGY (Soc)

Sociology 151 and 201 are equivalent introductory courses. 201 is specifically set up for juniors, seniors, or graduate students. Either course is a prerequisite to all advanced sociology courses.

151 Introduction to the Study of Society (3)  D. Chandler
Basic social relationships, norms, social structures, processes affecting social change. Not open to juniors or seniors.
Daily 8:45-10:00

201 Principles of Sociology (3)  P. Hammond
Principles underlying organization of social groups, communities, institutions, ecological structures; basic processes of socialization, collective behavior, social change. Equivalent to 151; open only to juniors, seniors, graduates.
Daily 11:35-12:50

325 Social Institutions (3)  H. Barringer
Culture as conceptual tool. Origin, structure, function, growth of institutions. Interrelation and integration.
Daily 11:35-12:50

350 Social Disorganization (3)  C. Ackerman
Factors in community, institutions, group disorganization; behavioral deviancy and social pathology. Integrated approach to social problems.
Daily 8:45-10:00

355 Criminology (3)  C. K. Cheng
Crimes and criminals; causative theories of criminality; institutional problems of apprehension, prosecution, incarceration, correction, rehabilitation.
Daily 10:10-11:25

360 Personality and Culture (3)  C. Ackerman
Origin and development of personality as subjective aspect of culture; function of communication; human nature and the mores; personal life organization.
Daily 8:45-10:00

410 Population and Society (3)  D. Yamamura
Society analyzed in terms of quantitative and qualitative aspects of population. Sociological aspects of birth and death rates, natural increase, mobility.
Daily 8:45-10:00

416 The Urban Community (3)  D. McElrath
Sociological principles as applied to modern city. Structure, growth, social and personal life organization.
Daily 8:45-10:00

425 People and Institutions of China (3)  C. K. Cheng
Analysis of social philosophies, their influence on basic institutions and traits of people. Impact of Western civilization and communism. Social change under People's Democratic Dictatorship.
Daily 8:45-10:00

427 People and Institutions of Korea (3)  H. Barringer
Social institutions and change processes in contemporary Korea. The family, education, polity, economy, religion. Comparison of North and South Korea.
Daily 10:10-11:25

441 The Family (3)  R. Winch
Culturally distinctive family types as background for analysis and interpretation of the American family.
Daily 11:35-12:50

443 Sociology of Religion (3)  P. Hammond
Structure, function, dynamics of religion in various types of societies.
Daily 10:10-11:25

449 Social Stratification (2)  D. McElrath
Analysis of social class; local and national stratification patterns; social mobility in industrial and non-industrial societies.
Daily 10:10-11:00

485 Social Statistics (3)  D. Yamamura
Introduction to statistical methods and resources as applied to social research data.
Daily 7:20-8:35

721 (3) Seminar: the Family (3)  R. Winch
Structure, function, growth of the family as a social institution.
MW 1:00-4:00

SPANISH (Span)

101 Elementary Spanish (4)  Staff
(3 sections)
Intensive beginning course, primarily emphasizing oral practice. Language lab practice required daily.
Daily (1) 7:45-8:35; 8:45-10:00 plus laboratory
(2) 9:10-10:00; 10:10-11:25 plus laboratory
(3) 10:10-11:25; 11:35-12:25 plus laboratory

102 Elementary Spanish (4)  Staff
Continuation of 101. Language lab practice required daily.
Daily 9:10-10:00; 10:10-11:25 plus laboratory

201 Intermediate Spanish (3)  Staff
(2 sections)
Continuation of oral practice, with increasing emphasis on reading and written composition. Language lab practice required daily.
Daily (1) 8:10-9:25 plus laboratory
(2) 10:10-11:25 plus laboratory

202 Intermediate Spanish (3)  Staff
Continuation of 201. Language lab practice required daily.
Daily 11:35-12:50 plus laboratory

330 Phonetics and Pronunciation Practice (2)  Staff
Analysis of Spanish phonological system, in contrast with English. Practice designed to perfect student's own pronunciation. Language lab practice required daily. Pre: 202 or equivalent.
Daily 8:45-10:00 plus laboratory

444 Spanish Dialectology (3)  Staff
Study of principal regional and social variants from cultured standard Castilian to be encountered in Iberian Peninsula, America, Philippines. Pre: 431 or consent of instructor.
Daily 10:10-11:25

485 Spanish-American Prose (3)  Staff
Reading and discussion of important plays, short stories, novels and essays.
Daily 7:20-8:35
697 Spanish-American Literature (3)  
Study of a period, author, genre or region. Pre: consent of instructor. (May be repeated.)  
Daily 11:35-12:50  

SPEECH-COMMUNICATION (Sp)  
145 Interpersonal  
D. M. Ogawa, V. K. Larson,  
Staff  
R. L. Rider, K. Nishiyama,  
(10 sections)  
L. E. Ekroth, Staff  
Introduction to speech-communication theory through participation in interpersonal communication activities. Concurrent Speech Communication Center clearance.  
Daily (1) 7:20- 8:35 Ogawa  
(2) 7:20- 8:35 Larson  
(3) 7:20- 8:35 Staff  
(4) 8:45-10:00 Rider  
(5) 8:45-10:00 Nishiyama  
(6) 10:10-11:25 Nishiyama  
(7) 10:10-11:25 Ekroth  
(8) 11:35-12:25 Staff  
(9) 11:35-12:25 Staff  
(10) 11:35-12:25 Staff  

200 Introduction to Speech-Communication  
Theory (3)  
D. M. Ogawa  
Introduction to the theory of speech-communication through models of the process. Examination of the major variables of source, message, medium, receiver, and how their interaction affects speech-communication.  
Daily 8:45-10:00  

211 General Phonology (3)  
V. K. Larson  
Dynamic phonology of American English. Systematic goal-oriented study of dialects in use. Modification of speech for particular purposes including pedagogy. Pre: ability to transcribe International Phonetic Alphabet according to established standard; or consent of instructor.  
Daily 8:45-10:00  

221 Speech-Communication in the Management of Learning (3)  
B. H. Byers  
Overview of principles of speech-communication management; message composition, media utilization and evaluation of speech-communication events, with special reference to problems of teaching-learning. Part of pre-service preparation of teachers; not intended for majors in speech-communication. Pre: 101 or 145.  
Daily 11:35-12:50  

231 Reading Aloud (3)  
R. L. Rider, Staff  
(2 sections)  
Principles of interpretative reading. Practice in textual analysis and in transmitting intellectual and aesthetic content of literature. Pre: 101 or 145.  
Daily (1) 10:10-11:25 (R. L. Rider)  
(2) 11:35-12:50 (Staff)  

251 Public Speaking (3)  
J. L. Owen  
Adaptation of rhetorical theory to particular speakers, audiences, occasions. Extensive practice in planning and delivering speeches. Pre: 101 or 145.  
Daily 10:10-11:25  

333 Storytelling (3)  
L. N. Breneman  
Esthetic communication through storytelling for entertainment and education. Oral tradition; analysis of story types; techniques of preparation and presentation; performance.  
Daily 11:35-12:50  

384 Intercultural Communication (3)  
L. E. Ekroth  
Analysis of the major variables affecting interpersonal communication between persons of differing cultural backgrounds. Pre: none. Social science background desirable.  
Daily 8:45-10:00  

491 Semantics (3)  
J. L. Owen  
Understanding language; verbal meaning and implication; roles of perception and assumption (inference and judgment) in human relationships.  
Daily 11:35-12:50  

521 Process in Modification of Speech-Communication Behavior (3)  
B. H. Byers  
This course is designed for in-service teachers. It will provide a theoretical background and practical applications, and is designed to enable teachers to become planners and managers of learning systems in the area of speech-communication development.  
Daily 10:10-11:25  

631 Seminar in Interpretation (3)  
L. N. Breneman  
Current literature in interpretation; reports; lecture-recitals. Pre: consent of instructor.  
TTh 1:10-4:10  

785 Seminar in Speech-Communication in Innovation (3)  
T. A. Welden  
Role of speech and other forms of communication in facilitating the adoption of new ideas and practices. Analysis of client system, and their relation to the agent of change. Development of criteria for measuring change. Pre: permission of instructor.  
MW 1:10-4:10  

800 Thesis (arr.)  

SPEECH PATHOLOGY AND AUDIOLOGY (SPA)  
300 Introduction to Speech Correction (3)  
B. J. Stansell  
Survey of field of speech correction; study of types of speech defects and hearing problems as they relate to speech dysfunctions.  
Daily 8:45-10:00  

301 Introduction to Audiology (3)  
G. K. Pang-Ching  
Basic concepts: psychoacoustics, anatomy and physiology, measurement of hearing, rehabilitation of hard-of-hearing.  
Daily 10:10-11:25  

410 Practicum in Speech Pathology (1-2)  
B. J. Stansell  
Clinical practice in use of diagnostic procedures and rehabilitation techniques with variety of speech disorders at various age levels. Hrs. arr.  

411 Practicum in Audiology (1-2)  
M. Ansberry,  
G. K. Pang-Ching  
Clinical practice in testing of hearing, hearing conversation, auditory training, speech reading, speech correction and conservation. Hrs. arr.  

701 Advanced Audiology (3)  
M. Ansberry  
Instrumentation; selection of hearing aids; special tests of hearing; vocational problems of individuals with impaired hearing.  
Daily 11:35-12:50  

710 Advanced Practicum in Speech Pathology (1-2)  
B. J. Stansell  
Supervised clinical practice in diagnostic and therapeutic procedures. Hrs. arr.
FIRST TERM Speech—Zoology

711 Advanced Practicum in M. Anaberry, Audiology (1-2) G. K. Pang-Ching
Supervised clinical practice of administering special tests; interpretation of audiograms; counseling of individuals with impaired hearing; use of varied rehabilitation techniques. Hrs. arr.

799 Research (1-4) M. Anaberry, G. K. Pang-Ching
Required of all graduate students following non-thesis program (Plan B); open to other qualified graduate students. Hrs. arr.

TAGALOG (Tag)

111 Intensive Elementary Tagalog (6) Staff
Intensive course equivalent to Elementary Tagalog in academic year. Includes all four skills: listening, speaking, reading and writing. In addition to 25 hours a week of class work for 6 weeks, two periods of laboratory drills are required daily. Daily 7:45-10:00; 12:30-2:25 plus laboratory

THAI (Thai)

111 Intensive Elementary Thai (6) T. Gething
Intensive course equivalent to Elementary Thai in academic year. Includes all four skills: listening, speaking, reading, and writing. In addition to 25 hours a week of class work for 6 weeks, two periods of laboratory drills required daily. Daily 7:20-10:00; 12:30-2:25 plus laboratory

303 Accelerated Third-Level Thai (6) Staff
Continuation of 204. Study of modern written texts. Laboratory work required daily. Daily 7:45-9:35; 1:10-3:50 plus laboratory

VIETNAMESE (Viet)

111 Intensive Elementary Vietnamese (6) S. O'Harrow
Intensive course equivalent to Elementary Vietnamese in academic year. Includes all four skills: listening, speaking, reading, and writing. In addition to 25 hours of class work for 6 weeks, two periods of laboratory drills required daily. Daily 7:20-10:00; 12:30-2:25 plus laboratory

303 Accelerated Third-Level Vietnamese (6) N. D. Liem
Continuation of 112; study of modern written texts. Laboratory work required daily. Daily 8:45-10:00; 10:10-11:25 plus laboratory

ZOOLOGY (Zool)

101 Principles of Zoology (4) S. A. Reed
Living animals, their structure, physiology, development, reproduction, evolution, habits, ecology, and their relationship to other living organisms and the environment. MWF 8:30-10:20 Laboratory TTh 8:30-11:20

310 Invertebrate Zoology (3) J. H. Bailey
Morphology, evolution, systematics, ecology, life history of invertebrate phyla. MW 10:30-12:20 Laboratory TTh 9:30-12:20

608 Growth and Form (4) S. R. Haley

699 Directed Research (arr.) Staff
Directed research and reading in various fields of zoology. Hrs. arr.
## SECOND TERM
### July 27 - September 4

### AGRICULTURE, TROPICAL

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Instructor(s)</th>
<th>Offered by</th>
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<tbody>
<tr>
<td>Agriculture (AG)</td>
<td>299</td>
<td>S. Goto</td>
<td>Staff</td>
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<tr>
<td>Agricultural Practice</td>
<td>399</td>
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<tr>
<td>Agricultural Thesis</td>
<td>510</td>
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<tr>
<td>Agricultural Education</td>
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<td>S. Goto</td>
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Open to voag and biological science teachers, senior ag students by permission.

### Agricultural Economics (AEc)

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<tr>
<td>Directed Study</td>
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Limited to exceptional undergraduate students who are qualified to carry on advanced study. Pre: consent of instructor.

### Agricultural Engineering (AE)

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<tr>
<td>Directed Research</td>
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### Agronomy (Agron)

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<tr>
<td>Research</td>
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### Animal Sciences (An Sc)

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<td>Directed Research</td>
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<tr>
<td>Research</td>
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### Entomology (Ento)

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<tr>
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Limited to participants in National Science Foundation Undergraduate Research Participation Program and to exceptional undergraduate students who are qualified to carry on research problems.

### Food Science (Fd Sc)

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### Horticulture (Hort)

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<td>Thesis Research</td>
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### Plant Pathology (PPath)

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### AMERICAN STUDIES (Am St)

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<tr>
<td>Introduction to American Civilization</td>
<td>202</td>
<td>R. Alcantara</td>
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The central concerns of contemporary American life and thought studied in the light of multidisciplinary perspectives.

Daily 8:45-10:00

### AMERICAN STUDIES

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<tr>
<td>Man in Society</td>
<td>302</td>
<td>P. Jacobs</td>
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Some basic problems and processes of contemporary society, jointly examined by several social sciences. Pre: sophomore standing.

Daily 10:10-11:25

### ANTHROPOLOGY (Anth)

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<tr>
<td>Introduction to Anthro­pol­ogy</td>
<td>150</td>
<td>Staff</td>
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Human evolution: prehistoric development of culture; recent and contemporary man, common features and principal variations in cultural behavior.

Daily 8:45-10:00
SECOND TERM  Botany—Business

200 Cultural Anthropology (3)  M. Sharma
Nature of culture; basic concepts for analyzing cultural behavior; patterning, integration, and dynamics of culture; culture and the individual.  Daily 8:45-10:00

BOTANY (Bot)

399 Botanical Problems (arr.)  Staff
699 Directed Research (arr.)  Staff
799 Directed Research (arr.)  Staff

BUSINESS ADMINISTRATION

Accounting (Acc)

201 Elementary Accounting (3)  J. Karbens
Theory and practice of income determination and asset valuation. Preparation and analysis of statements; uses for decision making. Pre: sophomore standing.
Daily 8:45-10:00 (Laboratory to be arranged)

202 Elementary Accounting (3)  J. Karbens
Theory and practice of income determination and asset valuation. Preparation and analysis of statements; uses for decision making. Pre: 201.
Daily 7:20-8:35 (Laboratory to be arranged)

307 Income Tax Problems (3)  Staff
Study of accounting problems related to income taxation, with emphasis on income, exclusions from income, deductions, and credits in the determination of income tax liability and the preparation of income tax returns. Pre: 202.
Daily 10:10-11:25

323 Financial Accounting II (3)  R. Walden
Accounting for corporate equities, long-term debt, investments, funds flow, analysis of financial statements, and partnerships. Pre: 321.
Daily 11:35-12:50

331 Auditing (3)  R. Walden
Daily 8:45-10:00

Business Analysis and Statistics (BAS)

111 Applied Mathematics (3)  J. Pickett
Application of mathematical operations to problems in business and economics; linear equations; progressions; theory of sets and functions; elementary matrix notation; differential and integral calculus (including partial differentiation, maxima and minima, Lagrange multiplier techniques).
Daily 10:10-11:25

301 Business Statistics (3)  R. Worthley
Principles of statistical inference, including frequency distribution, averages, variation, testing hypotheses, estimation of population mean, index numbers, time series, correlation, probability, sampling, chi square and F distribution, analysis of variance. Utilization of statistical data as aid to managerial decisions.
Daily 7:20-8:35

302 Business Statistics (3)  J. Jonish, R. Worthley
Principles of statistical inference, including frequency distribution, averages, variation, testing hypotheses, estimation of population mean, index numbers, time series, correlation, probability, sampling, chi square and F distribution, analysis of variance. Utilization of statistical data as aid to managerial decisions.  Daily (1) 7:20- 8:35 (Jonish)  (2) 10:10-11:25 (Worthley)

351 Personnel Selection and Training (3)  N. El-Ramly
Policies and procedures essential to staffing, developing, and maintaining proper relationships at all organizational levels.
Daily 8:45-10:00

Business Economics (BEC)

342 Managerial Economics II (3)  N. El-Ramly
Working concepts and case studies relating to demand analysis and production analysis; problems of demand creation, multifacors and multiproducts, technological change; cases involving working capital, financing and capital budgeting; input-output analysis and programming techniques. Pre: 341.
Daily 10:10-11:25

362 Foreign Trade Policy and Finance (3)  J. Jonish
Study of means and ends of international trade; international commodity agreements and commercial treaties, international banking facilities, foreign credits, foreign exchange, foreign investments.
Daily 8:45-10:00

375 Business Enterprise and Public Policies (3)  J. Pickett
Study of interrelations between business and governments. Special attention to analysis of public policies affecting business management; regulation monopoly and competition; business affected with public interest; use of subsidies to promote public purposes; use of government financing to regulate business.
Daily 8:45-10:00

Finance (Fin)

300 Business Finance (3)  J. Norem
(2 sections)
Introduction to functions, techniques, and problems of business finance; investing of assets, financing strategies, planning and control. Course will be both normative and descriptive. Pre: Acc 201-202 and BAS 111.
Daily (1) 8:45-10:00  (2) 10:10-11:25

Insurance (Ins)

300 Principles of Insurance (3)  S. Benfell
What insurance buyers should know about protecting income against illness and premature death; protection of home and business against property losses; third-party liability.
Daily 11:35-12:50

Management (Mgt)

Bus 300 The World of Business and the World of Man (3)  R. Baird
Study of basic economic, social, and political concepts of business and industry in the world of societies of today and tomorrow.
Pre: junior standing, non-business majors only.
Daily 11:35-12:50
321 Operations Management I (3)  A. Edge
Planning for effective office and manufacturing operations: historical development, human factors, methods, analysis, work measurement, location, layout, machines and equipment, and records management. Pre: BAS 111, 302.
Daily 8:45-10:00

Marketing (Mkt)
391 Marketing Strategies (3)  H. Stellmacher
Decision-making by the marketing executive; an integration of all elements of the marketing program based on actual business situations. Pre: 315, 321 and one other marketing course above the 300 (Principles) level or consent of instructor.
Daily 10:10-11:25

GRADUATE COURSES IN BUSINESS ADMINISTRATION
Bus 501 Accounting (3)  Staff
Basic concepts and procedures with emphasis upon cost accumulation and the preparation, analysis and uses of financial statements.
MTh 6:00-9:20 p.m.
Bus 505 Business Environment (3)  H. Stellmacher
Producing, financing and marketing in today's business environment.
MTh 6:00-9:20 p.m.

TRAVEL INDUSTRY MANAGEMENT (TIM)
Transportation (Trans)
352 Passenger Transportation (3)  F. Harding
Analysis of modes of passenger transportation, including rates and services in urban, local, intrastate, interstate and international operation, with particular emphasis on Pacific areas. Impact on areas served. Regulations of carrier operation and passenger travel. Pre: 351.
Daily 10:10-11:25

CHEMISTRY (Chem)
399 Directed Research (arr.)  Staff
Pre: consent of department chairman.
Hrs. arr.
799 Directed Research (arr.)  Staff
Pre: consent of department chairman.
Hrs. arr.

CHINESE (Chin)
102 Elementary Chinese (3)  Staff
Development of listening, speaking, reading and writing. Structural points introduced inductively.
Daily 9:10-11:25 plus laboratory

SECOND TERM  Business—Economics
112 Intensive Intermediate Chinese (6)  Staff
Intensive course equivalent to Intermediate Chinese in academic year. Includes all four skills: listening, speaking, reading, writing. In addition to 25 hours of class work a week for 6 weeks, two periods of laboratory drill daily required. Pre: consent of instructor.
Daily 7:20-10:00; 11:35-3:25 plus laboratory

202 Intermediate Chinese (4)  Staff
Continuation of 201; equivalent of second semester's work in academic year. Language lab practice required daily.
Daily 9:10-11:25 plus laboratory

206 Mandarin for Speakers of Cantonese (3)  Staff
Rapid introduction to spoken Mandarin for students who already have some knowledge of Cantonese and the Chinese writing system. Content of 201-202 is covered.
Daily 9:10-11:25 plus laboratory

302 Third-Level Chinese (3)  Staff
Continuation of 301; equivalent of second semester's work in academic year. Language lab practice required daily.
Daily 8:45-10:00 plus laboratory

402 Fourth-Level Chinese (3)  Staff
Continuation of 401; equivalent of second semester's work in academic year. Language lab practice required daily.
Daily 10:10-11:25 plus laboratory

452 Structure of Chinese (3)  B. Speer
Continuation of 451; equivalent of second semester's work in academic year.
Daily 1:10-2:25

462 Introduction to Modern Chinese Literature (3)  Staff
Selected readings in major genres, with an emphasis on analysis. Pre: 361 and 402.
Daily 10:10-11:25

ECONOMICS (Econ)
120 Introduction to Economics (3)  N. Lefton
One-semester course for non-majors. Provides general understanding of functioning of economic systems, including various approaches to organization of production and allocation of resources, and of policies designed to achieve national economic goals.
Daily 8:45-10:00

150 Principles of Economics (3)  R. Burcroff
Analysis of functioning of economic systems with emphasis on forces determining levels and changes of national income and employment. Describes basic economic institutions, e.g. markets, money, banks, labor organizations, corporations.
Daily 8:45-10:00

151 Principles of Economics (3)  B. Morris
Analysis of how commodity and factor prices are determined. Discusses policies for efficient allocation of scarce resources. Required of all economics majors.
Daily 10:10-11:25

300 Intermediate Economic Theory: National Income (3)  R. Ebel
Concepts; determination of income, employment, price levels; effects of fiscal, monetary, other policies. Pre: 150.
Daily 8:45-10:00
SECOND TERM  Economics—Education

301 Intermediate Economic Theory:
Price Theory (3)  R. Burcoff
Price determination and resource allocation under competition, monopoly, oligopoly, monopolistic competition. Theories of demand, cost, partial, general equilibrium. Pre: 151.
Daily 11:35-12:50

321 Elementary Statistics (3)
Basic elements of statistics, with emphasis on application: graphic presentation, logarithmic scales, rates and ratios, time series analysis, index numbers, regression and correlation analysis. MWF 1:00-3:00

340 Money and Banking (3)  J. Right
Nature and role of money; development of national and international monetary standards; role of commercial banking and financial intermediaries; development and function of central banking. Pre: 150.
Daily 11:35-12:50

400 Growth and Fluctuations (3)
Daily 10:10-11:25

404 History of Economic Thought (3)  N. Leften
Survey of economic thought from Adam Smith to present with emphasis on theory of value and distribution. Pre: 300, 301.
Daily 11:35-12:50

430 Economics of Human Resources (3)  J. Right
Economic analysis applied to the labor market with particular emphasis on investment in human capital, economics of education, health, migration, etc. Pre: 301.
Daily 8:45-10:00

450 Public Finance (3)  R. Ebel
Considers governmental expenditures, revenues and debt, both descriptively and theoretically. Fiscal policy considered, as are budgeting and tax administration. Pre: 300, 301.
Daily 11:35-12:50

461 International Finance (3)  S. Comitini
Institutional and theoretical aspects of international financing: balance of payments, exchange rates, capital movements, and multilateral equilibrium in world money market. Pre: 300, 460.
Daily 10:10-11:25

602 Economic Growth and Fluctuations (3)
Aggregate dynamic models of growth and fluctuations; current literature including neo-classical and neo-Keynesian models of economic growth, dynamic Leontief models and activity analysis. Pre: 600.
MW 1:00-3:30

610 Economic Development (3)  B. Morris
Theoretical analysis of factors underlying economic development with reference to underdeveloped nations. Survey of theoretical literature on economic development, dealing with causes of underdevelopment and development, alternative development models and their policy implications. Pre: consent of instructor.
TTh 1:00-3:30

EDUCATION

Curriculum and Instruction (Ed CI)
Courses numbered from 312 through 349 have as prerequisite enrollment in the College of Education as a classified student.

312(5) Foundations in Curriculum and Instruction: Elementary Education (3)
Study of objectives and organization of school's curriculum; discussion of principles and practices; roles of teacher in school.
Daily 8:00-9:55
July 27-August 21

312(10) Foundations in Curriculum and Instruction: Secondary Education (3)
Study of objectives and organization of school's curriculum; discussion of principles and practices; roles of teacher in school.
Daily 8:00-9:55
July 27-August 21

319 Children's Literature (2)
Accumulation with wide range of children's books; criteria for judging literature on basis of needs and interests. Pre: 312 or concurrent registration.
Daily 10:10-11:25
July 27-August 21

320 Language Arts, Elementary (2)
Modern approach to teaching of language arts—reading, oral written expression. Pre: 312 or concurrent registration.
Daily 10:10-11:25
July 27-August 21

321 Reading, Elementary (2)  B. Uehara
Survey of reading process; development of reading readiness, word recognition, comprehension, reading rate, vocabulary, reading interests, reading in content areas. Selection and use of reading materials, evaluation and appraisal of reading progress.
Daily 8:00-9:15
July 27-August 21

329 Creative Expression in Elementary Education (3)  E. Hayes
Development of communication skills through creative dramatics, rhythmic movement, related arts. Pre: 312 or concurrent registration or consent of instructor.
Daily 8:00-9:55
July 27-August 21

331 Teaching of Reading in Intermediate and High School (2)  Staff
Techniques and materials for teaching reading and improving reading skills in intermediate and high school. Pre: 312 or concurrent registration.
Daily 8:45-10:00
July 27-August 21

345 Literature for Adolescents (2)  Staff
Literature for secondary school level; helping students appreciate significance and meaning of literature; materials suitable for varying levels of ability and interests. Pre: 312 or concurrent registration.
Daily 10:10-11:25
July 27-August 21

498 Theory and Problems of Developing Creative Ability (3)  E. Hayes
Critical study of relationship of creativity to values and goals of education. Description of creative process, ontogeny of creative development, creative student, and creative teacher. Survey of methodology of assessment and enhancement of creative ability.
Consideration of classroom problems of creativity. Course pertains to teacher’s role in creative development at various grade levels and in various courses; focus is not restricted to art. Pre: teaching experience.
Daily 10:10-12:05
July 27-August 21

540(5) Practicum in Curriculum Development: Health and Physical (3) D. Thompson
Daily 8:00-9:55
July 27-August 21

540(9) Practicum in Curriculum Development: Science (2) A. Carr
Daily 8:00-12:00
August 17-28 (2 weeks)

597 Newspaper in the Classroom (2) Staff
A course with two aims: (1) to help teachers teach about the newspaper—its role in the community, how news is gathered, how a paper is produced; and (2) to help teachers use the newspaper effectively as a supplementary text for all grades and in all subject areas. Pre: teachers with professional or provisional certificates.
Daily 8:30-11:30; TTh 1:30-3:30
July 27-August 21

620 Teaching Reading in the Elementary School (3) B. Uehara
Daily 10:10-12:05
July 27-August 21

643 Public School Curriculum for Physical Education (3) E. Chui
Detailed examination of contents of adequate curriculum for physical education in public schools, K-12. Pre: 343, 636, HPE 203, or consent of instructor. (Identical with HPE 643.)
Daily 8:00-9:55
July 27-August 21

Educational Communications (Ed EC)

630 Television in Education (3) G. Kucera
Research backgrounds; development and utilization of television in education including fundamentals of television production and teaching with emphasis on utilization of television in school.
Daily 8:00-9:55
July 27-August 21

Educational Foundations (Ed EF)
Students enrolled in colleges other than the College of Education are asked to confer with the department chairman before enrolling in 310.

310 Foundations of American Education (3) E. Beauchamp (2 sections)
Contemporary educational theory and practice as related to major historical, philosophical, and social factors in American culture.
Daily (1) 8:45-10:00 (2) 10:10-11:25

651 History of American Education (3) S. Jaeckel
Introduction to history of American educational thought from the 17th century to the present.
Daily 8:00-10:00
July 27-August 21

660 Philosophy of Education (3) S. Jaeckel
Philosophical considerations essential to theories of education.
Pre: student teaching.
Daily 10:10-12:10
July 27-August 21

Educational Psychology (Ed EP)
EP 311 and 416 or their equivalents are prerequisites for all graduate courses in Educational Psychology.

416 Tests and Measurements (3) D. Ryans, (2 sections) P. Dunn-Rankin
Theory and techniques of measurement and evaluation in education, including supervised experience in instrument development and analysis.
Daily (1) 8:00-9:55 (Ryans)
(2) 10:10-12:05 (Dunn-Rankin)
July 27-August 21

601 Guidance in the School (3) D. Fullmer, T. Gust
Basic principles of guidance; consideration of techniques, organization, materials, resources.
Daily (1) 8:00-9:55 (Fullmer)
(2) 10:10-12:05 (Gust)
July 27-August 21

605 Problems of School Adjustment (3) W. Nunokawa, H. Kozuma
Principles of behavior affecting human relationships in school, with emphasis upon application to actual situations.
Daily (1) 8:00-9:55 (Nunokawa)
(2) 10:10-12:05 (Kozuma)
July 27-August 21

608 Introduction to Educational Research (3) P. Dunn-Rankin
Fundamental design and evaluation procedures in educational research. Topics to include determining needs, defining objectives, research design, instrumentation, data collection, and evaluation.
Pre: 416 or consent of instructor.
Daily 8:00-9:55
July 27-August 21

Health & Physical Education (HPE)
Medical Clearance Requirement: For HPE courses numbered 101-163, 233-236, 332-337, 433-434, and 454, a student is required to submit a medical clearance issued by the University of Hawaii Student Health Service no later than Friday, July 31. For the procedure to obtain this clearance, see page 25.
SECOND TERM  Education (HPE)—Engineering

103  Swimming: Beginning (1)  G. Seichi
    Adjusting to and immersing in water, floating, sculling; correct
    arm stroke, leg kick, breathing techniques and their coordination.
    Daily 9:10-10:00

107  Tennis: Beginning (1)  M. Stevenson, D. Thompson
    (3 sections)
    Rules, etiquette, grip, forearm and backhand strokes, serving,
    volleying, singles and doubles play.
    Daily (1) 8:10-9:00 (Stevenson)
    (2) 9:10-10:00 (Stevenson)
    (3) 10:10-11:00 (Thompson)

108  Tennis: Advanced (1)  A. Saake
    Improving the serve, forearm and backhand strokes, volleying,
    chop shot, competitive strategy, problems in rules.
    Daily 11:35-12:55
    July 27-August 21 (4 weeks)

110  Golf: Beginning (1)  M. Stevenson
    (2 sections)
    Rules, etiquette, grip, stance, drive, normal iron shots, appro-
    ach shots, putting.
    Daily (1) 10:10-11:00 (2) 11:10-12:00

123  Folk and National Dances (1)  L. Kaina
    Popular dances of various national groups, including square
    dances.
    Daily 10:10-11:30
    July 27-August 21 (4 weeks)

162  Karate (1)  D. Krieger
    Rules, etiquette, basic stances, blocks, thrusts, kicks, ippon
    kumite, and selected kata. (Student must provide own gi.)
    Daily 11:10-12:00

195  Modern Health: Personal and Community (2)  A. Saake
    Primarily for majors in health education, physical education
    and recreation. Mental-emotional health, family-living and sci-
    entific health information for personal and community health.
    Daily 10:10-11:25
    July 27-August 21 (4 weeks)

Courses numbered 201 and above are not open to lower division
students.

232  Safety Procedures and Accident
    Prevention (2)  M. Strasser
    Understanding the fundamental principles and techniques of
    safety and accident prevention programming emphasizing school,
    home, public places, on the job and motor vehicle situations.
    Daily 8:00-9:15
    July 27-August 21 (4 weeks)

233  Physical Education: Elementary (3)  A. Saake
    Content and methods for physical education in elementary
    school, emphasizing selection, planning, teaching, evaluation
    of movement exploration and physical activities.
    Daily 8:00-9:55
    July 27-August 21 (4 weeks)

436  Methods and Materials of Aquatics and
    Life Saving (2)  G. Seichi
    Methods of teaching swimming; theory and techniques of life
    saving and water safety leading to American Red Cross certifica-
    tion (W.S.I.). Pre: 104 or consent of instructor.
    Daily 10:10-11:25
    July 27-August 21 (4 weeks)

474  Assessment of Physical Fitness (3)  G. Krahenbuhl
    Current concepts and technology by which physical fitness and
    related aspects of structure, function and performance are
    assessed. Pre: 454 and 463 or consent of instructor.
    Daily 8:00-9:55
    July 27-August 21 (4 weeks)

477  Physical Education and
    Child Development (3)  G. Krahenbuhl
    Conceptions of physical, social, emotional and intellectual
    growth and development of child as influenced by physical educa-
    tion. Pre: 203 and 233, Psy 320 or consent of instructor.
    Daily 10:10-12:05
    July 27-August 21 (4 weeks)

498  Practicum in Mood and
    Behavior Modifiers (3)  R. Russell
    (2 sections)
    Identification of substances used by man to modify mood and
    behavior; problems resulting from their use, misuse, or abuse;
    analysis of motivations involved in their use, misuse, abuse, or non-
    use; implications for health education. Pre: health teaching expe-
    rience or consent of instructor.
    Daily (1) 8:00-9:55 (2) 10:10-12:05
    July 27-August 21 (4 weeks)

531  Practicum in Family Life and
    Sex Education (3)  Staff
    (2 sections)
    Practicum for teachers to upgrade subject matter in health
    education: family life and sex education. Pre: teaching experi-
    ence, consent of instructor.
    Daily (1) 8:00-9:55 (2) 10:10-12:05
    July 27-August 21 (4 weeks)

643  Public School Curriculum for
    Physical Education (3)  E. Chiu
    Detailed examination of contents of adequate curriculum for
    physical education in public schools, K-12. Pre: 203, Ed CI 343,
    Ed CI 636, or consent of instructor. (Identical with Ed CI 643.)
    Daily 8:00-9:55
    July 27-August 21 (4 weeks)

ENGINEERING

Civil Engineering (CE)

271  Applied Mechanics I (3)  G. Taoka
    Dynamics of particles and rigid bodies; force acceleration,
    Daily 8:45-10:10

370  Mechanics of Materials I (4)  T. Mitsuda
    Elastic stress-strain relationship and behavior of members
    under flexural, torsional, axial loading. Pre: 270.
    Daily 8:45-11:00

699  Directed Research (arr.)  Staff

800  Thesis (arr.)  Staff

Mechanical Engineering (ME)

311  Thermodynamics (3)  Staff
    Basic laws. Work, heat, concept of entropy. Perfect gases,
    Daily 8:45-10:00

371  Mechanics of Solids (3)  Staff
    Analysis of deformable bodies. Definition of stress and infinites-
    imal strain. Linear elasticity. Stress, strain and deformation of
    simple bodies subjected to torsion, bending, and shear force. Pre:
    CE 270.
    Daily 10:10-11:25
699 Directed Reading or Research (arr.)  Staff
Directed study for graduate students on subject of mutual
test of interest to student and a staff member. Student must find faculty
sponsor before registering. Pre: consent of department chairman.
May be repeated.

800 Thesis (arr.)  Staff
Thesis for degree of M.S. in mechanical engineering. Pre:
admission to candidacy and consent of thesis adviser.

ENGLISH (Eng)

100 Expository Writing (3)  Staff
A study of the principal steps in effective exposition-discovering,
interpreting, and evaluating data through observation and
reading; deciding upon an appropriate organizational plan;
choosing a voice and style suitable to the writer's audience and the
occasion for writing—accompanied by practice in the analysis of
expository pieces by professional writers.
Daily (1)  7:20-8:35 (4) 10:10-11:25
(2)  8:45-10:00 (Winters)
(3)  10:10-11:35 (Harris)
(4)  11:35-12:50 (Kissick)
(5)  10:10-11:25 (Lee)

251 Major Works of British and
American Literature (3)  B. Leggett, S. Woods
(3 sections)
From the Middle Ages to 1800; an introductory course for
sophomores.
Daily (1)  7:20-8:35 (Leggett)
(2)  8:45-10:00 (Leggett)
(3)  10:10-11:35 (Leggett)
(4)  10:10-11:25 (Karnes)
(5)  10:10-11:25 (Woods)

252 Major Works of British and
American Literature (3)  R. Werner, Staff, D. Fong
(3 sections)
From 1800 to the present; an introductory course for
sophomores.
Daily (1)  8:45-10:00 (Werner)
(2)  10:10-11:25 (Woods)
(3)  11:35-12:50 (Fong)

253 World Literature: To the
Renaissance (3)  L. Winters, R. Harris
(3 sections)
Major works of classical, Oriental, European and English
literature.
Daily (1)  7:20-8:35 (Winters)
(2)  8:45-10:00 (Harris)
(3)  10:10-11:35 (Harris)

254 World Literature: 1600
to the Present (3)  R. Nadel, M. Livingston,
M. Schwanekamp
(3 sections)
Major works of classical, Oriental, European, American and
English literature.
Daily (1)  8:45-10:00 (Nadel)
(2)  10:10-11:35 (Livingston)
(3)  11:35-12:50 (Schwanekamp)

255 Types of Literature (3)  L. Roeklein, G. Kissick,
J. Karnes
(4 sections)
Practical criticism in the major genres of European and American
literature. Short story, novel, literary essay, introduction to
poetry (narrative).
Daily (1)  7:20-8:35 (Roeklein)
(2)  8:45-10:00 (Kissick)
(3)  10:10-11:25 (Kissick)
(4)  11:35-12:50 (Kissick)

256 Types of Literature (3)  J. Stokes, L. Laouras
(3 sections)
Practical criticism in the major genres of European and American
literature. Drama, biography, poetry.
Daily (1)  7:20-8:35 (Stokes)
(2)  10:10-11:25 (Stokes)
(3)  11:35-12:50 (Laouras)

309 Written Communication (3)  M. Lee, L. Laouras
(3 sections)
Practice in informative, analytical, and persuasive writing.
Open only to students in Business Administration and Home Eco-
nomics. Pre: 100 and sophomore literature, or equivalent.
Daily (1)  7:20-8:35 (Lee)
(2)  8:45-10:00 (Laouras)
(3)  10:10-11:25 (Lee)

331 Introduction to Poetry (3)  E. Heine,
J. W. Frierson, S. Woods
Written and oral analysis of imagery, sound, language, form
and structure of poems, leading to increased awareness of nature of
poetry.
Daily (1)  7:20-8:35 (Heine)
(2)  8:45-10:00 (Frierson)
(3)  10:10-11:25 (Woods)

336 Introduction to Literary Problems (3)  B. Stillians
Critical evaluation of the genres of literature, of various modes
of analysis, of problems involved in literary perception.
Daily 11:35-12:50

446 Shakespeare (3)  L. Winters
Shakespeare's plays from Hamlet through the last plays.
Daily 10:10-11:25

458 18th-Century English Literature (3)  D. Fong
Poetry, prose (exclusive of the novel), drama from 1740 to
1780, with emphasis on Johnson and his circle.
Daily 8:45-10:00

471 American Literature (3)  I. Lind
A survey of American literature from the beginnings to Civil
War.
Daily 8:45-10:00

487 20th-Century British and
American Poetry (3)  E. Heine
Daily 10:10-11:25

775 Seminar in English Literature (3)  B. Stillians
Studies of Romantic Poets.
MWF 8:45-10:50

780 Seminar in American Literature (3)  I. Lind
Study of Faulkner.
MWF 11:35-1:40

FRENCH (Fr)

102 Elementary French (4)  Staff
(2 sections)
Continuation of 101. Language lab practice required daily.
Daily (1)  7:45-8:35;  8:45-10:00 plus laboratory
(2)  9:10-10:00;  10:10-11:25 plus laboratory

201 Intermediate French (3)  Staff
Intensive course in conversation, grammar review, reading,
composition. Pre: 102 or the equivalent. Language lab practice
required daily.
Daily 10:10-11:25 plus laboratory
202 Intermediate French (3)  Staff
(2 sections)
Continuation of 201. Language lab practice required daily.
Daily (1) 7:20-8:35 plus laboratory
(2) 10:10-11:25 plus laboratory

312 Advanced Composition (3)  Staff
Emphasis on strengthening facility with language with further
Daily 8:45-10:00

332 Survey of French Literature (3)  Staff
Survey of French literature covering major authors and move­
ments from 1750. Pre: 311-312 with which either 331 or 332 may
be taken concurrently.
Daily 8:45-10:00

361 French Civilization (3)  Staff
Daily 11:35-12:50

GEOGRAPHY (Geog)

101 Elements of Physical Geography (3)  G. Scott
Survey of man's natural environment; distribution and inter­
relationships of climates, vegetation, soils, and landforms. Labor­
atory problems in map interpretation and environmental analysis.
Daily 10:10-11:25
Lab (1) MW 1:10-4:00
(2) TTh 1:10-4:00

102 World Regional Geography (3)  R. Lyons
Geography of the world's major cultural regions; emphasis on
geographic aspects of contemporary economic, social, and political
conditions.
Daily 11:35-12:50

151 Economic Geography (3)  G. Fielding
Locations, characteristics and relationships of economic activ­
ities. Elements of resource management, location theory, trans­
portation and urban geography. Problems of the developed and
underdeveloped worlds.
Daily 8:45-10:00

326 Conservation of Natural Resources (3)  J. Schroeder
Man's interaction with the environment. Changes in the con­
cept of conservation. Ecological, philosophical and political as­
pects of present environmental dilemmas. Contemporary U.S.
problems and internal issues.
Daily 8:45-10:00

335 Political Geography (3)  J. Parsons
Geographic background of international politics and national
power. Case studies of problems.
Daily 11:35-12:50

356 Geography of Southeast Asia (3)  T. Luna
Southeast Asia in world economy. Human and physical re­
sources basis and returns achieved by various methods of land
utilization. National economies of continental and insular South­
east Asia, problems and prospects of modernization.
Daily 10:10-11:25

421 Urban Geography (3)  G. Fielding
Location, size, functions, spatial-economic structure of modern
city. Urban sphere of influence. Problems of urban transportation,
changes in land use and urban growth. Role of government in ur­
ban development. Pre: 151 or consent of instructor.
Daily 11:35-12:50

GEOSCIENCES (Geosc)

799 Directed Reading and Research (arr.)  Staff
Hrs. arr.

800 Thesis Research (arr.)  Staff
Hrs. arr.

GERMAN (Ger)

101 Elementary German (4)  Staff
Intensive course in conversation, grammar, reading, writing.
Language lab practice required daily.
Daily 7:45-8:35; 8:45-10:00 plus laboratory

102 Elementary German (4)  Staff
Continuation of German 101. Language lab practice required
daily.
Daily 7:45-8:35; 8:45-10:00 plus laboratory

201 Intermediate German (3)  Staff
Intensive course in conversation, grammar, review, reading,
composition. Pre: 102 or the equivalent. Language lab practice
required daily.
Daily 8:45-10:00 plus laboratory

202 Intermediate German (3)  Staff
Continuation of German 201. Language lab practice required
daily.
Daily 10:10-11:25 plus laboratory

HAWAIIAN (Haw)

102 Elementary Hawaiian (3)  Staff
(2 sections)
Continuation of 101; equivalent of second semester's work in
academic year. Language lab practice required daily.
Daily (1) 1:10-2:25 plus laboratory
(2) 1:10-2:25 plus laboratory

202 Intermediate Hawaiian (3)  Staff
Continuation of 201; equivalent of second semester's work in
academic year. Language lab practice required daily.
Daily 1:10-2:25 plus laboratory

HISTORY (Hist)

151 World Civilization (3)  P. Joerger
Survey of the more significant political, social, economic, and
intellectual factors in the development of civilization 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.
Daily 7:20-8:35 plus lab
Lab 1-3 M 1:00-2:15
Lab 4-6 T 1:00-2:15
Lab 7-8 W 1:00-2:15
Lab 9-10 Th 1:00-2:15
152 Civilization (3)  P. Joerger
Continuation of the history of world civilization from the sev­enteenth century to the present day.
Daily 10:10-11:25 plus lab
Lab 1-4  M 1:00-2:15
Lab 5-8  T 1:00-2:15
Lab 9-11  W 1:00-2:15
Lab 12-14  Th 1:00-2:15

282 Introduction to American History (3)  W. Jackson
Interpretive survey of U.S. history from 1877 to the present.
Daily 8:45-10:00

406 History of Southeast Asia (3)  R. Van Niel
Historical survey of Southeast Asian civilizations and states, including Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia and Philippines. From late 18th century to present.
Daily 8:45-10:00

407(5) National and Regional History in Southeast Asia: Modern Indonesia (3)  R. Van Niel
Detailed treatment of particular periods and countries in Southeast Asia. Prereq: 405-406.
Daily 10:10-11:25

410 History of China Since 1600 (3)  W. Franke
Course of Chinese civilization.
Daily 8:45-10:00

414 History of Modern Japan (3)  G. Akita
Historical survey of Japanese culture, government, economics, institutions. From 1600 to present.
Daily 10:10-11:25

427 Ancient Greek History (3)  W. Maurer
History, art, and culture of the archaic, classical, and Hellen­istic ages.
Daily 7:20-8:35

437 Early Modern Europe, 1600-1800 (3)  R. Cubberly
Thought and culture of Europe in age of expansion.
Daily 7:20-8:35

438 French Revolution, 1789-1815 (3)  R. Cubberly
Louis XIV and 18th century ferment. Jacobins and the Con­vention; Robespierre; Napoleon. Historiography, theories of causation, and nationalism will be stressed.
Daily 8:45-10:00

450 History of Russia (3)  R. Wade
Survey of development of Russian thought and institutions, and of territorial expansion. Impact of revolutionary changes. From mid-19th century to present. Listed as course for Russian Studies Certificate.
Daily 10:10-11:25

481 American Thought and Culture (3)  R. Rapson
Advanced course in American social customs, institutions, intellectual pursuits.
Daily 8:45-10:00

483 The West in American History (3)  W. Jackson
Western expansion forces in development of economic, cultural, political, trends of nation.
Daily 10:10-11:25

491 History of Africa (3)  B. Obichere
A survey of African history during the 19th and 20th centuries.
Daily 8:45-10:00

619 Seminar in Russian History (3)  R. Wade
Research in problems on history of Russia and Soviet Union.
Hrs. arr.

661 Seminar in Chinese History (3)  W. Franke
Problems and reading in political, social, cultural history of China.
Hrs. arr.

691 Seminar in African History (3)  B. Obichere
Hrs. arr.

HUMAN RESOURCES DEVELOPMENT

Food and Nutritional Sciences (FN)

499 Directed Reading and Research (arr.)  Staff

Food Service Administration (FSA)

499 Directed Reading and Research (arr.)  Staff

Nutrition (Nutr)

699 Directed Reading and Research (arr.)  Staff

INDONESIAN (Ind)

112 Intensive Intermediate Indonesian (6)  S. Darjowidjojo
Intensive course equivalent to Intermediate Indonesian in academic year. Includes all four skills: listening, speaking, reading, and writing. In addition to 25 hours of class work a week for 6 weeks, two periods of laboratory drill daily required.
Daily 7:20-10:00; 12:30-2:25 plus laboratory

404 Accelerated Fourth-Level Indonesian (6)  Staff
Continuation of 303. Conducted in Indonesian. Advanced conversation and reading. Reading includes hikayat literature in Arabic script. Prereq: 303 or equivalent.
Daily 7:20-10:00; 12:30-2:25 plus laboratory

JAPANESE (Jap)

102 Elementary Japanese (3)  Staff
Continuation of 101; equivalent of second semester's work in academic year.
Daily (1) 9:10-11:25 plus laboratory
(2) 9:10-11:25 plus laboratory
(3) 9:10-11:25 plus laboratory
(4) 9:10-11:25 plus laboratory
(5) 9:10-11:25 plus laboratory

112 Intensive Intermediate Japanese (6)  Staff
Intensive course equivalent to Intermediate Japanese in academic year. Includes all four skills: listening, speaking, reading, and writing. In addition to 25 hours a week of class work for 6 weeks, two periods of laboratory drill daily required. Prereq: consent of instructor.
Daily (1) 7:45-10:00; 12:35-3:25 plus laboratory
(2) 7:45-10:00; 12:35-3:25 plus laboratory
SECOND TERM  Japanese—Linguistics

202 Intermediate Japanese (4)  Staff
(4 sections)
Continuation of 201. Language lab practice required daily.
Daily (1) 10:10-12:25 plus laboratory
(2) 10:10-12:25 plus laboratory
(3) 10:10-12:25 plus laboratory
(4) 10:10-12:25 plus laboratory

302 Third-Level Japanese (3)  Staff
(2 sections)
Continuation of 301; equivalent of second semester's work in academic year. Language lab practice required daily.
Daily (1) 11:35-12:50 plus laboratory
(2) 11:35-12:50 plus laboratory

361 Japanese Literature in Translation-Traditional (3)  Staff
Historical survey from earliest times to 1868, with emphasis on analysis. Knowledge of Japanese not required. Pre: two semesters of literature in English department.
Daily 10:10-11:25

402 Fourth-Level Japanese (3)  Staff
Continuation of 401; equivalent to second semester's work in academic year. Language lab practice required daily.
Daily 11:35-12:50 plus laboratory

404 Accelerated Fourth-Level Japanese (6)  Staff
Study of modern spoken and written Japanese involving complex structures, expressions, patterns, toyo-yo kanji. In one session, content of 401-402 covered. Pre: 303 or equivalent.
Daily 10:10-11:25; 11:35-12:50 plus laboratory

452 Structure of Japanese (3)  Y. Kusanagi
Continuation of 451; equivalent of second semester's work in academic year.
Daily 2:35-3:50

456 Topics in Japanese Grammar (3)  N. Fujioka
Analysis of topics in modern colloquial Japanese grammar.
Pre: 302 or equivalent.
Daily 1:10-2:25

KOREAN (Kor)

112 Intensive Intermediate Korean (6)  Staff
Intensive course equivalent to Intermediate Korean in academic year. Includes all four skills: listening, speaking, reading, and writing. In addition to 25 hours of class work a week for 6 weeks, two periods of laboratory drill daily required.
Daily 7:45-10:00; 12:30-2:25 plus laboratory

LATIN (Latin)

102 Elementary Latin (3)  Staff
Continuation of 101.
Daily 8:45-10:00

202 Intermediate Latin (3)  Staff
Continuation of 201.
Daily 10:10-11:25

LIBRARY STUDIES (LS)

All library studies courses meet twice each day in a morning and afternoon session. Registration in library studies courses requires the approval of the Dean of the Graduate School of Library Studies. Classes will meet on Registration Day.

642 Audio-Visual Services in Libraries (3)  E. Schofield
Films, filmstrips, recordings, and related media as they apply to various types of educational programs in libraries. Sources, evaluations, organization, and use of audio-visual materials. Materials are viewed or audited and judged.
Daily 9:15-10:30; 2:30-3:45
July 27-August 14

706 Technical Services for Far Eastern Collections (3)  Y. Suzuki
An introduction to the major forms of library services to the reader as developed in libraries of all types. Emphasis on study of the community served as a basis for the program of reader services. Wide reading, class lectures and discussion, student projects, and an opportunity to observe services provided in public, school, college, and special libraries in the area.
Daily 7:45-9:00; 1:00-2:15
July 27-August 14

LINGUISTICS (Ling)

102 Introduction to the Study of Language (3)  A. Lyovin
Nature and workings of language; its role in culture and history.
Daily 11:35-12:50

320 General Linguistics (3)  B. Sommer
Approaches, concepts, component areas of linguistics; its development as a science.
Daily 7:20-8:35

630 Field Methods (3)  J. H. Ward
Work with native speakers of lesser-known languages to develop methods and techniques for collecting and analysis of linguistic data. Pre: 421, 422. May be repeated.
Daily 10:10-11:25

651 Advanced Linguistic Analysis (3)  I. Howard
Advanced problems and discussion of theory, techniques, procedures in linguistics. Pre: 621, 622 and consent of instructor.
Daily 8:45-10:00

699 Directed Research (arr.)  Staff
Pre: graduate standing; consent of instructor.
Hrs. arr.

750 Seminar (3)  C. J. N. Bailey
Reporting and discussion of current research in linguistics.
Pre: consent of instructor. May be repeated.
Daily 1:10-2:25
MATHMATICS (Math)

100 Survey of Mathematics (3) E. A. Bertram, (3 sections) G. L. E. Csordas
To acquaint non-specialists with the position of mathematics in modern culture. Open to freshmen and sophomores who have not earned credit in 111 or above.
Daily (1) 7:20-8:35 (Bertram)
(2) 8:45-10:00 (Csordas)
(3) 11:35-12:50 (Csordas)

111 Introduction to Mathematics (3) A. Shukla, (3 sections) N. C. Whitman, J. Wood
Study of structure and concepts of number systems. (Primarily for Education majors.)
Daily (1) 7:20-8:35 (Whitman)
(2) 10:10-11:25 (Wood)
(3) 11:35-12:50 (Shukla)

201 Finite Mathematics (3) E. H. Mookini
Algebra of sets, elementary probability theory, vectors and matrices, linear programming, theory of games. Pre: 134 or equivalent.
Daily 11:35-12:50

232 Ordinary Differential Equations (3) F. T. Iha
First order equations; linear equations with constant coefficients; system of equations, Laplace transforms; applications. Pre: 231.
Daily 10:10-11:25

402 Partial Differential Equations (3) R. A. Hirschfeld, (2 sections) F. T. Iha
Daily (1) 8:45-10:00 (Iha)
(2) 10:10-11:25 (Hirschfeld)

471 Probability (3) R. Z. Yeh
Probability spaces, random variables, probability distributions, functions of random variables, mathematical expectations, moment-generating functions and characteristic functions, limit theorems. Pre: 232.
Daily 8:45-10:00

MEDICAL TECHNOLOGY (MT)

464 Immunohematology (3) P. Taylor
Antigen-antibody relationships in human blood, study of blood groups, clinical problems in transfusion. Pre: Micro 361 or consent of instructor.
TTh 1:00-4:20

MICROBIOLOGY (Micro)

699 Directed Research (arr.) Staff
Selected problems in microbiology. Pre: consent of instructor.

800 Thesis Research (arr.) Staff

MUSIC (Mus)

160 Introduction to Music Literature (3) R. Vaught
Orchestral literature from classical through modern period. From listener's point of view.
Daily 8:45-10:00

170 Music in World Culture (3) R. Trimillos
Role of music in societies—ancient and modern, sophisticated and non-sophisticated, Western and non-Western, child and adult. Representative styles and regional characteristics.
Daily 10:10-11:25

180 Fundamentals of Western Music (3) N. McKay
Fundamental concepts in organization of music as expressive medium in Western Culture. Roles of composer, performer and listener. Notation as mode of communication. Discovery and verification of ideas through laboratory of experience.
Daily 10:10-11:25

470 Art Music of Asia (2) R. Trimillos
Major genres and representative works. Performance practices and compositional principles. Pre: 160 or 170 or 180 or 181, or consent of instructor.
Daily 8:20-10:00
July 27-August 14

519 Music for Elementary Teachers (3) M. Tait, N. McKay
Music fundamentals: basic music skills and compositional principles. Pre: 118 or 119 or 180 or consent of instructor.
Daily 10:10-12:30
July 27-August 14

581 Arranging (2) N. McKay
Creative arranging in various styles for vocal and instrumental ensembles. (Emphasis this session on stage band.) Pre: Music 182 or consent of instructor. May be repeated for credit.
Daily 8:45-10:00
July 27-August 21

652 Problems in Music Education (2) H. Higa
Study of choral, instrumental, general music at elementary and secondary school levels. Research, reports and conferences. (Emphasis this session on elementary strings). Pre: teaching experience. May be repeated.
Daily 10:10-11:50
July 27-August 14

OCEANOGRAPHY (Ocean)

699 Directed Research (arr.) Staff
Pre: consent of instructor.

800 Thesis Research (arr.) Staff
Pre: consent of adviser.

PHILOSOPHY (Phil)

100 Introduction to Philosophy (3) L. Goodman
Problems, methods, fields of philosophy.
Daily 8:45-10:00
210 Introduction to Logic (3)  
R. Wargo  
Principles of modern deductive logic.  
Daily 8:45-10:00

376 Aristotle (3)  
L. Goodman  
Analysis of the fundamental ideas and works including his  
methodological, metaphysical, ethical, political, logical, and  
aesthetic theory.  
Daily 11:35-12:50

445 Symbolic Logic I (3)  
R. Wargo  
Intermediate level course designed to impart the techniques of  
symbolic logic, both the propositional calculus and first order  
Daily 10:10-11:25

PHYSICS (Phys)  
161 College Physics (3) Lab (1)  
G. Hayes  
Fundamental principles, theories, experimental methods. Pre:  
credit or registration in Math 134.  
Daily 8:45-10:00 Lab TF 10:10-1:10

RELIGION (Rel)  
150 Introduction to the Study of  
World Religions (3)  
R. T. Bobillin  
Introduction to world’s living religions—Hinduism, Buddhism,  
Shinto, Confucianism, Taoism, Judaism, Christianity, Islam.  
Daily 7:20-8:35

151 Religion and the Meaning of  
Existence (3)  
S. C. Crawford  
Introduction to basic ideas and issues of contemporary religious  
thought as related to the question “What is the meaning of  
existence?”  
Daily 8:45-10:00

484 Religion and Social Change in Asia (3)  
R. T. Bobillin  
Study of the interrelationship of society, and religion in Asia.  
Emphasis on roles of traditional elites, heterodox religious  
movements, effects of modernization and secularization and  
religious organization, socio-religious movements in the  
developing countries.  
Daily 10:10-11:25

RUSSIAN (Rus)  
102 Elementary Russian (4)  
Staff  
Continuation of 101. Language lab practice required daily.  
Daily 7:20-8:35; 9:10-10:00 plus laboratory

202 Intermediate Russian (3)  
Staff  
Continuation of 201. Language lab practice required daily.  
Daily 10:10-11:25 plus laboratory
SOCIOLOGY (Soc)
Sociology 151 and 201 are equivalent introductory courses. 201 is specifically set up for juniors, seniors, or graduate students. Either course is a prerequisite to all advanced sociology courses.

151 Introduction to the Study of Society (3) D. Brodie
Basic social relationships, norms, social structures, processes affecting social change. Not open to juniors or seniors.
Daily 8:45-10:00

201 Principles of Sociology (3) C. Endo
Principles underlying organization of social groups, communities, institutions, ecological structures; basic processes of socialization, collective behavior, social change. Equivalent to 151; open only to juniors, seniors, graduates.
Daily 11:35-12:50

320 Race Relations (3) F. Samuels
Race relations in world perspective; typical situations; conflict and accommodation; caste; race prejudice; miscegenation; effects upon personality.
Daily 8:45-10:00

426 People and Institutions of Japan (3) C. Endo
Social structure and social change in contemporary Japan. Special attention to family, stratification, mobility.
Daily 8:45-10:00

441 The Family (3) R. Habenstein
Culturally distinctive family types as background for analysis and interpretation of the American family.
Daily 10:10-11:25

447 Industrial Sociology (3) R. Habenstein
Daily 11:35-12:50

465 Sociology of Small Groups (3) F. Samuels
Practical application of theories and research findings involving face-to-face relations; leadership, prestige, group morale.
Daily 11:35-12:50

481 Methods of Social Research (3) D. Brodie
Values and limitations of methods of research for various types of studies. Pre: 9 credits in sociology or consent of instructor.
Daily 7:20-8:35

SPANISH (Span)

102 Elementary Spanish (4) Staff
(2 sections)
Continuation of 101. Language lab practice required daily.
Daily (1) 7:45-8:35; 8:45-10:00 plus laboratory
(2) 9:10-10:00; 10:10-11:25 plus laboratory

201 Intermediate Spanish (3) Staff
Continuation of oral practice, with increasing emphasis on reading and written composition. Language lab practice required daily.
Daily 9:10-10:25 plus laboratory

202 Intermediate Spanish (3) Staff
(2 sections)
Continuation of 201. Language lab practice required daily.
Daily (1) 7:20-8:35 plus laboratory
(2) 10:10-11:25 plus laboratory

SPEECH-COMMUNICATION (Sp)

Introduction to speech-communication theory through participation in interpersonal communication activities. Concurrent Speech Communication Center clearance.
Daily (1) 7:20-8:35 Ellingsworth
(2) 7:20-8:35 Kunimoto
(3) 7:20-8:35 Yamada
(4) 8:45-10:00 Harms
(5) 8:45-10:00
(6) 10:10-11:25 Klopf
(7) 10:10-11:25 Heinberg
(8) 11:35-12:50 Oxford
(9) 11:35-12:50 Meeske
(10) 11:35-12:50 Sitaram

200 Introduction to Speech-Communication Theory (3) D. W. Klopf
Introduction to the theory of speech-communication through models of the process. Examination of the major variables of source, message, medium, receiver, and how their interaction affects speech-communication.
Daily 8:45-10:00

231 Reading Aloud (3) W. H. Oxford
Principles of interpretative reading. Practice in textual analysis and in transmitting intellectual and aesthetic content of literature. Pre: 101 or 145.
Daily 10:10-11:25

333 Storytelling (3) H. W. Ellingsworth
Esthetic communication through storytelling for entertainment and education. Oral tradition; analysis of story types; techniques of preparation and presentation; performance.
Daily 8:45-10:00

491 Semantics (3) P. J. Heinberg
Understanding language; verbal meaning and implication; roles of perception and assumption (inference and judgment) in human relationships.
Daily 11:35-12:50

696 General Seminar in Interpersonal Communication (3) M. D. Meeske
Seminar in selected topics in speech-communication. May be repeated with permission of department chairman.
MW 1:10-4:10

784 Seminar in Intercultural Speech-Communication (3) K. S. Sitaram
Focus on the major variables of speech-communication in an intercultural context. Linguistic and non-verbal factors. Possibilities for training in intercultural, face-to-face communication roles. Pre: 101 and at least one course in cultural anthropology, or permission of instructor.
TTh 1:10-4:10

800 Thesis (arr.)
SPEECH PATHOLOGY AND AUDIOLOGY (SPA)

410 Practicum in Speech Pathology (1-2)  M. May
Clinical practice in the use of diagnostic procedures and rehabilitation techniques with a variety of speech disorders at various age levels.
Hrs. arr.

710 Advanced Practicum in Speech Pathology (1-2)  M. May
Supervised clinical practice in diagnostic and therapeutic procedures.
Hrs. arr.

TAGALOG (Tag)

112 Intensive Intermediate Tagalog (6)  Staff
Intensive course equivalent to Intermediate Tagalog in the academic year. Includes the four basic skills: listening, speaking, reading and writing. In addition to 25 hours of class work per week during six weeks, two periods of laboratory drill required daily.
Daily 7:45-10:00; 12:30-2:25 plus laboratory

THAI (Thai)

112 Intensive Intermediate Thai (6)  Staff
Intensive course equivalent to Intermediate Thai in the academic year. Includes all four skills: listening, speaking, reading, and writing. In addition to 25 hours of class work per week during six weeks, two periods of laboratory drill required daily.
Daily 7:20-10:00; 12:30-2:25 plus laboratory

VIETNAMESE (Viet)

112 Intensive Intermediate Vietnamese (6)  S. O'Harrow
Intensive course equivalent to Intermediate Vietnamese in academic year. Includes four basic skills: listening, speaking, reading, and writing. In addition to 25 hours of class work per week during six weeks, two periods of laboratory drill required daily.
Daily 7:20-10:00; 12:30-2:25 plus laboratory

404 Accelerated Fourth-Level Thai (6)  Staff
Continuation of 303. Study of advanced written texts. Advanced conversation. Pre: 303 or equivalent.
Daily 8:45-10:00; 10:10-11:25 plus laboratory

ZOOLOGY (Zool)

420 Embryology (4)  S. R. Haley
Descriptive and analytical embryology of selected vertebrates and invertebrates.
Daily 8:30-10:00
Laboratory MTWTh 1:30-3:20

699 Directed Research (arr.)  Staff
Directed research and reading in various fields of zoology.
Hrs. arr.
OFF-CAMPUS COURSES

HONOLULU

Ed CI 598 Individualized Instruction (3) F. Johnson
Background, meaning, and purpose of individualized learning; roles of the learner; roles of the teacher.
Daily 8:30-10:25
June 22-July 17 Kalihi-Uka School

Ed CI 599 Literature and the Film (3) G. Wilson
(2 sections)
Comparison and contrast of art forms taught in the secondary school English curriculum. Reading and discussion of selected short stories, novels, plays, and film scripts, accompanied by viewing and analysis of films which have been made from them. Emphasis upon the problems of transforming novel and play to cinema.
Daily (1) 8:00-9:15 Lab 9:15-10:00
(2) 10:15-11:30 Lab 9:15-10:00
June 16-July 24 McKinley High School

Eng 501 English Institute: Language (3) W. Stryker
An introduction to some important concepts underlying new language curriculum for the schools. Topics to be covered include: elements of phonology and morphology; the differences between "deep structure" and "surface structure"; major developments in the history of the language; the relations between language and culture; research findings about how children gain control of language.
Daily (1) 8:30-11:00
June 16-July 2 Noelani School

Eng 530 English Institute: Interpretation of Literature (3) J. Walker
Training in alert response to literary texts and in sound interpretation of those texts. Much of the class discussion will focus on the language, tone, and structural patterns in stories and poems that might be taught in elementary school, but stories and poems (and possibly one or two plays) for adult readers on similar themes will also be considered.
Daily (1) 8:30-11:00
July 6-July 24 Noelani School

CENTRAL

Ed CI 540(10) Practicum in Curriculum Development: Social Studies (3) F. Brown
Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods course; teaching experience.
Daily (2) 8:30-11:00
June 16-July 2 Wahiawa Intermediate School

Ed CI 540(13) Practicum in Curriculum Development: General Curriculum & Teaching Problems (3) V. D. Buchanan
Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods course; teaching experience.
Daily (1) 10:00-11:15
June 16-July 24 Solomon School

LEEWARD

Ed CI 540(10) Practicum in Curriculum Development: Social Studies (3) F. Brown
Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods course; teaching experience.
Daily (3) 8:30-11:00
July 6-July 24 Highlands Intermediate School
Ed CI 540(13) Practicum in Curriculum Development: General Curriculum & Teaching Problems (3)  V. D. Buchanan

Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Prereq: related undergraduate methods course; teaching experience.

Daily (2) 8:00-9:15
June 16-July 24 Honowai School

Eng 501 English Institute: Language (3)  C. Blatchford

An introduction to some important concepts underlying new language curriculum for the schools. Topics to be covered include: elements of phonology and morphology; the differences between "deep structure" and "surface structure"; major developments in the history of the language; the relations between language and culture; research findings about how children gain control of language.

Daily (2) 8:30-11:00
June 16-July 2 Pearl City Highlands Schools

Eng 530 English Institute: Interpretation of Literature (3)  J. Spade

Training in alert response to literary texts and in sound interpretation of those texts. Much of the class discussion will focus on the language, tone, and structural patterns in stories and poems that might be taught in elementary school, but stories and poems (and possibly one or two plays) for adult readers on similar themes will also be considered.

Daily (2) 8:30-11:00
July 6-July 24 Lehua Elementary School

WINDWARD

Ed CI 540(10) Practicum in Curriculum Development: Social Studies (3)  M. Brown

Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Prereq: related undergraduate methods course; teaching experience.

Daily (1) 8:30-11:00
June 16-July 2 Kailua High School

Ed CI 540(13) Practicum in Curriculum Development: General Curriculum and Teaching Problems (3)  F. Braun

Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Prereq: related undergraduate methods course; teaching experience.

Daily (5) 8:30-11:00
June 16-July 2 Kailua High School

Eng 501 English Institute: Language (3)  C. Blatchford

An introduction to some important concepts underlying new language curriculum for the schools. Topics to be covered include:

HAWAII

Ed CI 540(13) Practicum in Curriculum Development: General Curriculum & Teaching Problems (3)  L. Fischer

Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Prereq: related undergraduate methods course; teaching experience.

Daily (3) 8:30-11:00
June 16-July 2 Hilo Annex Auditorium

Eng 501 English Institute: Language (3)  W. Stryker

An introduction to some important concepts underlying new language curriculum for the schools. Topics to be covered include: elements of phonology and morphology; the differences between "deep structure" and "surface structure"; major developments in the history of the language; and the relations between language and culture; research findings about how children gain control of language.

Daily (4) 8:30-11:00
July 6-July 24 Hilo Campus

Eng 530 English Institute: Interpretation of Literature (3)  J. Walker

Training in alert response to literary texts and in sound interpretation of those texts. Much of the class discussion will focus on the language, tone, and structural patterns in stories and poems that might be taught in elementary school, but stories and poems (and possibly one or two plays) for adult readers on similar themes will also be considered.

Daily (4) 8:30-11:00
June 16-July 2 Hilo Campus
OFF-CAMPUS COURSES

MAUI

Ed Cl 540(13) Practicum in Curriculum Development: General Curriculum & Teaching Problems (3) L. Fischer
Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods course; teaching experience.
Daily (4) 8:30-11:00
July 6-July 24 Kahului School

Ed EP 409 Culturally and Economically Disadvantaged Pupil (3) W. McDougall
Survey of social and psychological factors related to culturally and economically disadvantaged pupil and his education. Review of local resources and facilities to assist these pupils. Pre: consent of instructor. (Identical with Ed EF 409.)
Daily (3) 8:30-11:00
June 16-July 2 Maui Community College

Ed EP 601 Guidance in the School (3) P. McDougall
Basic principles of guidance; consideration of techniques, organization, materials, resources.
Daily (2) 8:30-11:00
July 6-July 24 Maui Community College

Eng 530 English Institute: Interpretation of Literature (3) D. Petitto
Training in alert response to literary texts and in sound interpretation of those texts. Much of the class discussion will focus on the language, tone, and structural patterns in stories and poems that might be taught in elementary school, but stories and poems (and possibly one or two plays) for adult readers on similar themes will also be considered.
Daily (5) 8:30-11:00
July 6-July 24 Lihikai School

KAUAI

Ed Cl 540(13) Practicum in Curriculum Development: General Curriculum and Teaching Problems (3) F. Braun
Designed for teachers-in-service to upgrade subject matter and develop new teaching methods and materials for instruction in courses of study. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods course; teaching experience.
Daily (6) 8:30-11:00
July 6-July 24 Wilcox School

"deep structure" and "surface structure"; major developments in the history of the language; the relations between language and culture; research findings about how children gain control of language.
Daily (5) 8:30-11:00
June 16-July 2 Lihikai School
Art 101 Introduction to Visual Arts (3)  Staff
Nature of visual art and its expressions in various forms. Lectures, demonstrations.

Art 108 Beginning Drawing (3)  H. Droste
Studio experience mainly for non-majors. Lectures and projects. Credit cannot count toward major requirements in Art.

Econ 150 Principles of Economics (3)  J. Swaffar
Analysis of functioning of economic systems with emphasis on forces determining levels of changes of national income and employment. Describes basic economic institutions, e.g., markets, money, banks, labor organizations, corporations.

Econ 151 Principles of Economics (3)  J. Swaffar
Analysis of how commodity and factor prices are determined. Discusses policies for efficient allocation of scarce resources.

Ed CI 319 Children's Literature (3)  B. Willett
Acquaintance with wide range of children's books; criteria for judging literature on basis of needs and interests. Pre: 312 or concurrent registration.

Ed CI 329 Creative Expression, Elementary (3)  B. Willett
Development of communication skills through creative dramatics, rhythmic movement, related arts. Pre: 312 or concurrent registration, or consent of instructor.

Ed CI 620 Teaching Reading in Elementary School (3)  H. Ikeda

Ed EF 445 Sociology of Education (3)  J. Ford
Examination of development of theoretical and practical aspects of social structure and their relationship to education. Pre: 310 or 3 hrs. of sociology; consent of instructor.

Ed EF 651 History of Education (3)  J. Ford
Introduction to history of American educational thought from 17th century to present.

Ed EP 404 Education of Exceptional Children (3)  H. Ikeda
Survey of characteristics of children who deviate from average in mental, sensory, physical, social attributes; reviews adaptations made by schools to abilities and disabilities of exceptional children.

Eng 80-H (non-credit) Refresher  J. Allen, Jr.
(Enrollment by invitation only)

Eng 100 Composition (3)  Y. Droste
Study of principal steps in effective exposition—discovering, interpreting, and evaluating data through observation and reading; deciding upon an appropriate organizational plan; choosing a voice and style suitable to the writer's audience and the occasion for writing—accompanied by practice in the analysis of expository pieces by professional writers.

Eng 251 Masters of British and American Literature (3)  M. Sugano
Middle Ages to 1800.

Eng 321 Introduction to Linguistics (3)  J. Fisher
Descriptive linguistics, including: Methodology; language as a communication system; areal linguistics; origins of language; structure and change. (Identical with Anthro 321.)

Eng 369 Contemporary Literature (3)  R. Bander
Study of representative modern American, British, and European novels, stories, and dramas. Writers to be considered include Beckett, Pinter, Genet, Roth, Malamud, and Nabakov.

Eng 401 Modern English Grammar (3)  J. Fisher
Syntax of modern English examined within framework of recent linguistic scholarship.

Eng 479 Studies in American Literature (3)  J. Allen, Jr.
Some aspect of American literature, such as genre, one or more major authors, etc. May be repeated for credit.

Eng 521 Poetry and Popular Music (3)  D. Treacy
Survey of key figures and movements in contemporary popular music, focus on possible applications of this music in the English classroom to teach and appreciate the elements, as well as other aspects of literature and composition.

HPE 103 Beginning Swimming (1)  R. Goya
Adjusting to the immersing in water, floating, sculling; correct arm stroke, leg kick, breathing techniques and their coordination.

HPE 107 Beginning Tennis (1)  R. Goya, H. Hamai
(2 sections)
Rules, etiquette, grip, forehand and backhand strokes, serving, volleying; singles and doubles play.
(1) (Goya)
(2) (Hamai)

HPE 108 Advanced Tennis (1)  H. Hamai
Emphasis on improving the serve, forehand and backhand strokes, volleying, chop strokes, competitive strategy, problems in rules.

HPE 110 Beginning Golf (1)  H. Hamai
Rules, etiquette, grip, stance, drive, normal iron shots, approach shots, putting.
HPE 111 Advanced Golf (1)  H. Hamai  
Emphasis on improving drive, fairway wood shots, long iron shots, control shots, trouble shots, putting, course management, competitive strategy, problems in rules. Actual play on golf course requires additional fees.

HPE 115 Beginning Bowling (1)  R. Goya  
Rules, etiquette, arm swing, approach, execution, scoring, spare pickups. Class participation at bowling alley requires additional fees.

HPE 120 Beginning Badminton (1)  R. Goya  
Rules, etiquette, grip, forehand and backhand strokes, serving, smash, drive, net play, offensive and defensive strategy in singles and doubles play.

Hist 151 World Civilization (3)  L. Warsh  
Development of civilization from ancient Orient and classical Greece and Rome to present. Devoted primarily to presenting, in broad outline, main cultural and historical development in each area. 151 ends with Reformation in Europe.

Hist 152 World Civilization (3)  T. Smuck  
Continuation of the history of world civilization from the 16th century to the present day.

Hist 466 U.S. Since 1941 (3)  L. Warsh  
World War II, Cold War and beyond; politics from Roosevelt to Johnson; McCarthyism, civil rights; economic and social development.

IS 190 Film and the Arts (4)  R. Bander  
An investigation into the formal structure of films including study of character, pace, style, structure, camera use and theme; films will be compared with literature, art, music, and other media of expression.

IS 250, 550 Japanese Culture and Civilization (3-5)  H. Aoki  
A six week study tour of Japan, combining lectures on and visitation of the cultural, educational, and governmental institutions.

Math 134 Pre-Calculus Mathematics (4)  J. Kanno  
Basic operations; algebraic functions and equations; analytic geometry; trigonometric functions; lines, conics. Pre: two years of high school algebra and 1 year of plane geometry or consent of division.

Ocean 201 Science of the Sea (3)  F. Little  
Introduction to biological, geological, chemical, physical aspects of oceanography. Based on classroom lectures and use of oceanographic equipment and techniques at sea aboard ship and in near-shore zone.

Phil 100 Introduction to Philosophy (3)  Staff  
Problems, methods, and fields of philosophy.

PFR 300 Personnel and Labor Relations (3)  H. Marutani  
Introduction to labor and trade unionism; introduction to personnel management principles and practices.

PolSci 110 Introduction to Political Science (3)  B. Markey  
Role of government in modern society. Types and practices of government; processes of political change; citizen participation.

PolSci 365 Understanding Political Behavior (3)  B. Markey  
A study of the many forces that determine the behavior of the "political actor." Primary among these forces are the demands of non-governmental bodies such as business, unions, religious groups, and ethnic groups. The legal commitment, party control and the political climate will be explored for their effect on political behavior. Specific political decisions will be examined.

Psy 424 Abnormal Psychology (3)  P. Dixon  
Nature and causes of psychoneuroses and psychoses; abnormalities of intelligence; psychotherapy. Pre: 100 or 111.

Psy 700 Seminar (3)  (12) Learning.

Sci 122 Introduction to Science (4)  J. Easley  
Characteristics of science and interaction of society with science, illustrated by topics from physical science.

Soc 151 Introduction to Sociology (3)  A. Yanagisako  
Basic social relationships, norms, social structures and processes affecting social change. Prerequisite to all advanced courses.

Soc 310 Community Forces in Hawaii (3)  A. Yanagisako  
Basic factors and forces in contemporary society as exemplified in Hawaii.

Soc 320 Race Relations (3)  H. Kitano  
Race relations in world perspective; typical situations; conflict and accommodation; caste; race prejudice; miscegenation; effects upon personality.

Soc 350 Social Disorganization (3)  H. Kitano  
Factors in community, institution, group disorganization; behavioral deviancy and social pathology. Integrated approach to social problems.