1972 SUMMER CALENDAR

MAY

S M T W T F S
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

JUNE

S M T W T F S
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30

JULY

S M T W T F S
1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31

AUGUST

S M T W T F S
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31

SEPTEMBER

S M T W T F S
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

FIRST TERM (JUNE 13–JULY 21)

May 15–June 13 ........................................ Registration
May 29, Monday .................................. Holiday (Memorial Day)
June 14, Wednesday .......................... Instruction begins
June 16, Friday ................................... Last day of registration for credit
July 4, Tuesday ................................... Holiday (Independence Day)
July 14, Friday ................................. Last day for withdrawal from courses
July 21, Friday .................................. First term ends

SECOND TERM (JULY 24–SEPTEMBER 1)

July 24, Monday .................................. Registration
July 25, Tuesday .............................. Instruction begins
July 28, Friday ................................... Last day of registration for credit
August 6, Sunday ............................. Summer Commencement
August 18, Friday ............................ Holiday (Admission Day)
August 25, Friday ............................. Last day for withdrawal from courses
September 1, Friday .......................... Second term ends
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration and Faculty</td>
<td>6</td>
</tr>
<tr>
<td>University, Manoa, Hilo, College Deans, Summer Session</td>
<td>6</td>
</tr>
<tr>
<td>Resident Summer Faculty</td>
<td>7</td>
</tr>
<tr>
<td>Visiting Summer Faculty</td>
<td>12</td>
</tr>
<tr>
<td>The University of Hawaii</td>
<td>14</td>
</tr>
<tr>
<td>The Summer Session</td>
<td>15</td>
</tr>
<tr>
<td>Summer Session Notes</td>
<td>19</td>
</tr>
<tr>
<td>Extracurricular Activities</td>
<td>22</td>
</tr>
<tr>
<td>Housing Information</td>
<td>23</td>
</tr>
<tr>
<td>Additional Information</td>
<td>24</td>
</tr>
<tr>
<td>Courses Offered—First Term</td>
<td>27</td>
</tr>
<tr>
<td>Agriculture, Tropical</td>
<td>27</td>
</tr>
<tr>
<td>Agriculture</td>
<td>27</td>
</tr>
<tr>
<td>Agricultural Economics</td>
<td>27</td>
</tr>
<tr>
<td>Agricultural Engineering</td>
<td>27</td>
</tr>
<tr>
<td>Agronomy</td>
<td>27</td>
</tr>
<tr>
<td>Animal Sciences</td>
<td>27</td>
</tr>
<tr>
<td>Entomology</td>
<td>27</td>
</tr>
<tr>
<td>Food Science &amp; Technology</td>
<td>27</td>
</tr>
<tr>
<td>Horticulture</td>
<td>27</td>
</tr>
<tr>
<td>Plant Pathology</td>
<td>27</td>
</tr>
<tr>
<td>Soil Science</td>
<td>27</td>
</tr>
<tr>
<td>American Studies</td>
<td>27</td>
</tr>
<tr>
<td>Anatomy</td>
<td>28</td>
</tr>
<tr>
<td>Anthropology</td>
<td>28</td>
</tr>
<tr>
<td>Architecture</td>
<td>29</td>
</tr>
<tr>
<td>Art</td>
<td>29</td>
</tr>
<tr>
<td>Asian Studies</td>
<td>30</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>30</td>
</tr>
<tr>
<td>Biophysics</td>
<td>30</td>
</tr>
<tr>
<td>Botany</td>
<td>30</td>
</tr>
<tr>
<td>Business Administration</td>
<td>31</td>
</tr>
<tr>
<td>Accounting</td>
<td>31</td>
</tr>
<tr>
<td>Business Analysis and Statistics</td>
<td>31</td>
</tr>
<tr>
<td>Business Economics</td>
<td>31</td>
</tr>
<tr>
<td>Finance</td>
<td>32</td>
</tr>
<tr>
<td>Law</td>
<td>32</td>
</tr>
<tr>
<td>Management</td>
<td>32</td>
</tr>
<tr>
<td>Marketing</td>
<td>32</td>
</tr>
<tr>
<td>Personnel and Industrial Relations</td>
<td>32</td>
</tr>
<tr>
<td>Real Estate</td>
<td>33</td>
</tr>
<tr>
<td>Transportation</td>
<td>33</td>
</tr>
<tr>
<td>Travel Industry Management</td>
<td>33</td>
</tr>
<tr>
<td>Graduate Courses</td>
<td>33</td>
</tr>
<tr>
<td>Chemistry</td>
<td>34</td>
</tr>
<tr>
<td>Drama and Theatre</td>
<td>34</td>
</tr>
<tr>
<td>East Asian Languages</td>
<td>35</td>
</tr>
<tr>
<td>General</td>
<td>35</td>
</tr>
<tr>
<td>Chinese</td>
<td>35</td>
</tr>
<tr>
<td>Japanese</td>
<td>35</td>
</tr>
<tr>
<td>East Asian Literature</td>
<td>35</td>
</tr>
<tr>
<td>Chinese</td>
<td>35</td>
</tr>
<tr>
<td>Economics</td>
<td>35</td>
</tr>
<tr>
<td>Education</td>
<td>36</td>
</tr>
<tr>
<td>Curriculum and Instruction</td>
<td>36</td>
</tr>
<tr>
<td>Industrial Education</td>
<td>38</td>
</tr>
<tr>
<td>Educational Administration</td>
<td>38</td>
</tr>
<tr>
<td>Educational Communications</td>
<td>38</td>
</tr>
<tr>
<td>Educational Foundations</td>
<td>39</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>39</td>
</tr>
<tr>
<td>Health &amp; Physical Education</td>
<td>41</td>
</tr>
<tr>
<td>Special Education</td>
<td>42</td>
</tr>
<tr>
<td>Engineering</td>
<td>42</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>42</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>42</td>
</tr>
<tr>
<td>General Engineering</td>
<td>42</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>43</td>
</tr>
<tr>
<td>Ocean Engineering</td>
<td>43</td>
</tr>
<tr>
<td>English</td>
<td>43</td>
</tr>
<tr>
<td>English Language Institute</td>
<td>45</td>
</tr>
<tr>
<td>Course</td>
<td>Page</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Anthropology</td>
<td>66</td>
</tr>
<tr>
<td>Art</td>
<td>66</td>
</tr>
<tr>
<td>Botany</td>
<td>66</td>
</tr>
<tr>
<td>Business Administration</td>
<td>67</td>
</tr>
<tr>
<td>Accounting</td>
<td>67</td>
</tr>
<tr>
<td>Business Analysis and Statistics</td>
<td>67</td>
</tr>
<tr>
<td>Business Economics</td>
<td>67</td>
</tr>
<tr>
<td>Finance</td>
<td>67</td>
</tr>
<tr>
<td>Law</td>
<td>67</td>
</tr>
<tr>
<td>Management</td>
<td>67</td>
</tr>
<tr>
<td>Marketing</td>
<td>68</td>
</tr>
<tr>
<td>Personnel and Industrial Relations</td>
<td>68</td>
</tr>
<tr>
<td>Real Estate</td>
<td>68</td>
</tr>
<tr>
<td>Transportation</td>
<td>68</td>
</tr>
<tr>
<td>Travel Industry Management</td>
<td>68</td>
</tr>
<tr>
<td>Chemistry</td>
<td>69</td>
</tr>
<tr>
<td>East Asian Languages</td>
<td>69</td>
</tr>
<tr>
<td>English</td>
<td>69</td>
</tr>
<tr>
<td>Japanese</td>
<td>69</td>
</tr>
<tr>
<td>East Asian Literature</td>
<td>69</td>
</tr>
<tr>
<td>Economics</td>
<td>69</td>
</tr>
<tr>
<td>Education</td>
<td>70</td>
</tr>
<tr>
<td>Curriculum and Instruction</td>
<td>70</td>
</tr>
<tr>
<td>Industrial Education</td>
<td>70</td>
</tr>
<tr>
<td>Educational Communications</td>
<td>71</td>
</tr>
<tr>
<td>Educational Foundations</td>
<td>71</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>71</td>
</tr>
<tr>
<td>Health &amp; Physical Education</td>
<td>72</td>
</tr>
<tr>
<td>Special Studies</td>
<td>72</td>
</tr>
<tr>
<td>Engineering</td>
<td>72</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>72</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>72</td>
</tr>
<tr>
<td>Ocean Engineering</td>
<td>72</td>
</tr>
<tr>
<td>English</td>
<td>73</td>
</tr>
<tr>
<td>English as a Second Language</td>
<td>73</td>
</tr>
<tr>
<td>Genetics</td>
<td>74</td>
</tr>
<tr>
<td>Geography</td>
<td>74</td>
</tr>
<tr>
<td>Geology and Geophysics</td>
<td>74</td>
</tr>
<tr>
<td>History</td>
<td>74</td>
</tr>
<tr>
<td>Special Studies</td>
<td>74</td>
</tr>
<tr>
<td>Honors Program</td>
<td>74</td>
</tr>
<tr>
<td>Honors Courses</td>
<td>74</td>
</tr>
<tr>
<td>Human Resources Development</td>
<td>75</td>
</tr>
<tr>
<td>Food and Nutritional Sciences</td>
<td>75</td>
</tr>
<tr>
<td>Food Service Administration</td>
<td>75</td>
</tr>
<tr>
<td>Nutrition</td>
<td>75</td>
</tr>
<tr>
<td>Indo-Pacific Languages</td>
<td>75</td>
</tr>
<tr>
<td>General</td>
<td>75</td>
</tr>
<tr>
<td>Bengali</td>
<td>75</td>
</tr>
<tr>
<td>Burmese</td>
<td>75</td>
</tr>
<tr>
<td>Hawaiian</td>
<td>75</td>
</tr>
<tr>
<td>Hindi</td>
<td>75</td>
</tr>
<tr>
<td>Indonesian</td>
<td>75</td>
</tr>
<tr>
<td>Lao</td>
<td>75</td>
</tr>
<tr>
<td>Nepali</td>
<td>75</td>
</tr>
<tr>
<td>Tagalog</td>
<td>75</td>
</tr>
<tr>
<td>Thai</td>
<td>75</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>75</td>
</tr>
<tr>
<td>Information Sciences</td>
<td>75</td>
</tr>
<tr>
<td>Linguistics</td>
<td>75</td>
</tr>
<tr>
<td>Mathematics</td>
<td>75</td>
</tr>
<tr>
<td>Medical Technology</td>
<td>75</td>
</tr>
<tr>
<td>Microbiology</td>
<td>75</td>
</tr>
<tr>
<td>Music</td>
<td>75</td>
</tr>
<tr>
<td>Oceanography</td>
<td>75</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>75</td>
</tr>
<tr>
<td>Philosophy</td>
<td>75</td>
</tr>
<tr>
<td>Photography</td>
<td>75</td>
</tr>
<tr>
<td>Physiology</td>
<td>75</td>
</tr>
<tr>
<td>Astronomy</td>
<td>77</td>
</tr>
<tr>
<td>Political Science</td>
<td>77</td>
</tr>
<tr>
<td>Psychology</td>
<td>77</td>
</tr>
<tr>
<td>Public Health</td>
<td>77</td>
</tr>
<tr>
<td>Religion</td>
<td>78</td>
</tr>
<tr>
<td>Science, General</td>
<td>78</td>
</tr>
<tr>
<td>Social Work</td>
<td>78</td>
</tr>
<tr>
<td>Sociology</td>
<td>78</td>
</tr>
<tr>
<td>Speech-Communication</td>
<td>79</td>
</tr>
<tr>
<td>Speech Pathology and Audiology</td>
<td>79</td>
</tr>
<tr>
<td>Zoology</td>
<td>79</td>
</tr>
<tr>
<td>CAMPUS MAP</td>
<td>80</td>
</tr>
</tbody>
</table>
Administration

UNIVERSITY

Harlan Cleveland, A.B., LL.D., L.H.D., D.C.L., Litt. D., President
Stuart M. Brown, Ph.D., Vice-President for Academic Affairs
William W. Parsons, M.S., Vice-President for Business Affairs
H. Brett Melendy, Ph.D., Vice-President for Community Colleges
Kenneth K. Lau, LL.M., Secretary of the University
Roy Y. Takeyama, LL.B., Secretary of the Board of Regents

MANOA

Richard S. Takasaki, M.P.A., Chancellor

HILO

Paul M. Miwa, Ph.D., Chancellor
Charles B. Neff, Ph.D., Provost

COLLEGE DEANS

David E. Contois, Ph.D., College of Arts and Sciences
Ralph C. Hook, Jr., Ph.D., College of Business Administration
Edward M. Barnet, Ph.D., School of Travel Industry Management
Ralph M. Miwa, Ph.D., College of Continuing Education and Community Service
Hubert V. Everly, Ph.D., College of Education
John W. Shupe, Ph.D., College of Engineering
Wytze Gorter, Ph.D., Graduate Division
College of Health Sciences and Social Welfare:
   Terence A. Rogers, Ph.D., School of Medicine
   Edith H. Anderson, Ph.D., School of Nursing
   Edward O'Rourke, M.P.H., School of Public Health
   Herbert H. Aptekar, D.S.W., School of Social Work
Robert D. Stevens, Ph.D., Graduate School of Library Studies
C. Peairs Wilson, Ph.D., College of Tropical Agriculture

SUMMER SESSION*

Douglas S. Yamamura, Ph.D., Acting Dean
Takeshi Moriwaki, Ph.D., Assistant Dean

Summer Session Curriculum Committee: Deans David Bess, Nicholas B. Corba, Shosuke Goto, Roger L. Hadlich, Andrew W. S. In, Alfred J. Levy, Ralph M. Miwa; Professors Joseph Maltby, Herbert F. Margulis, Richard Rider

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

Abbott, Agatin, Ph.D. (Washington), Professor of Geology
Abrera, Josepha, Ph.D. (Indiana), Assistant Professor of Library Studies
Adachi, Mitsuo, Ed.D. (Arizona State), Assistant Professor of Education
Adams, Carl W., M.S. (Naval Post Graduate School), Associate Professor of Meteorology
Aikman, Shirley, M.A. (Hawaii), Assistant Professor of Fashion Design, Textiles and Merchandising
Akita, George, Ph.D. (Harvard), Professor of History
Allday, Christopher, Ph.D. (California at Berkeley), Assistant Professor of Mathematics
Allen, Richard D., Ph.D. (Iowa State), Associate Professor of Microbiology
Allton, Donald, M.M. (Eastman School of Music), Lecturer in Music
Anderson, George, Ph.D. (Pennsylvania), Professor of English
Anderson, Ronald S., Ph.D. (California at Berkeley), Professor of Education
Ansbury, Merle, Ph.D. (Wisconsin), Professor of Speech Pathology & Audiology
Anthony, Alberta P., M.A. (Hawaii), Instructor in Hawaiian
Aoki, Mitsuo, D.D. Honorary (Pacific School of Religion), Professor of Religion
Apfel, James A., Ed.D. (George Peabody College), Assistant Professor of Education
Arai, Tero, Natori Diploma (Nishikawa, Japan), Lecturer in Music
Araki, Charles T., Ed.D. (Illinois), Assistant Professor of Education
Asato, James K., M.S. (Illinois), Assistant Professor of Health & Physical Education
Assali, Robin N., M.A. (California at Berkeley), Assistant Professor of Philosophy
Aten, Donald G., Ed.D. (Columbia), Associate Professor of Education
Augustus, K. Joseph, M.S. (New Mexico State), Assistant Professor of General Engineering
Austin, Mary C., Ed.D. (Syracuse), Professor of Education
Ayabe, Harold I., Ph.D. (Indiana), Assistant Professor of Education
Bach, O. Wilfrid, Ph.D. (Sheffield), Associate Professor of Geography
Baciu, Stefan, M.A. (Bucharest), Professor of Spanish
Baili, Frederick T., Ph.D. (Cornell), Assistant Professor of Education
Bailey, Joseph K., Ph.D. (Texas), Professor of Management
Ball, Harry, Ph.D. (Minnesota), Professor of Sociology
Ball, Robert, Ph.D. (Columbia), Assistant Professor of Classics
Baumann, Paul, Ph.D. (California at Berkeley), Assistant Professor of Microbiology
Baumer, Jack F., M.A. (Madras), Assistant Professor of Hindi
Baumer, Rachel V.M., Ph.D. (Pennsylvania), Associate Professor of Bengali
Beauchamp, Edward R., M.Ed. (Worcester State College), Acting Assistant Professor of Education
Beaver, Frank, M.A. (California State College at Long Beach), Instructor in Art
Becker, August, Ed.D. (Columbia), Assistant Professor of Education
Bekeart, Edna F., B.A. (Hawaii), Lecturer in Health & Physical Education
Bell, Donald W., B.S. (Montana State), Assistant Professor of Real Estate
Bender, Frederic L., Ph.D. (Northwestern), Assistant Professor of Philosophy
Berger, Leslie R., Ph.D. (California at Davis), Professor of Microbiology
Bertram, Edward, Ph.D. (California at Los Angeles), Assistant Professor of Mathematics
Bess, David, Ph.D. (California at Los Angeles), Associate Professor of Transportation
Birkhoff, Ruth, M.A. (Bread Loaf School of English), Instructor in English
Blaine, Daniel D., B.A. (Western State), Acting Assistant Professor of Education
Blaylock, John G., Ph.D. (Iowa), Associate Professor of Psychology
Bloom, Alfred, Ph.D. (Harvard), Associate Professor of Religion
Blumberg, Allen, Ed.D. (Syracuse), Associate Professor of Education
Blumberg, Barbara, M.Ed. (Marshalls), Lecturer in Education
Blust, Robert, M.A. (Hawaii), Lecturer in Linguistics
Bohlin, Robert, Ph.D. (Southern California), Associate Professor of Religion
Bond, Graeme A., M.A. (Hawaii), Instructor in Speech-Communication
Bouslog, Charles, Ph.D. (Harvard), Professor of English
Boyd, David, B.S. (Carnegie Mellon), Instructor in General Engineering
Boyd, Mark, M.A. (Hawaii), Instructor in Drama & Theatre
Brameld, Theodore, Ph.D. (Chicago), Lecturer in Education
Brase, Charles, Ph.D. (Colorado), Assistant Professor of Mathematics
Breen, Nancy, M.A. (Ohio State), Instructor in English
Brown, Frank B., D.Ed. (Indiana), Associate Professor of Education
Brown, Nancy, M.A. (Ohio State), Instructor in English
Burcroft, Richard, B.S. (Rensselaer Polytechnic Institute), Acting Assistant Professor of Economics
Burges, Hugh, M.S. Arch. (Columbia), Associate Professor of Architecture
Burns, Alfred, Ph.D. (Washington), Associate Professor of Classics
Bury, Douglas C., LL.B. (Alberta), Assistant Professor of Business Law
Bushnell, Kenneth, M.F.A. (Hawaii), Assistant Professor of Art
Bwy, Douglas, Ph.D. (Northwestern), Associate Professor of Political Science
Byers, Burton H., Ph.D. (Columbia), Associate Professor of Speech-Communication
Calica, Arnold, Ph.D. (Johns Hopkins), Assistant Professor of Mathematics
Cannaday, Norma, M.A. (Indiana), Lecturer in Spanish
Cannon, Glen, B.A. (Temple), Assistant Professor of Drama & Theatre
Carlson, John G., Ph.D. (Minnesota), Associate Professor of Psychology
Chattopadhayay, Virgie O., Ed.D. (California at Los Angeles), Assistant Professor of Education
Cheng, C.K., Ph.D. (Washington), Professor of Sociology
Cheng, Chung-yung, Ph.D. (Harvard), Associate Professor of Philosophy
Cheng, Edmund, Ph.D. (Utah State), Assistant Professor of Civil Engineering
Cheng, Ronald, Ph.D. (California at Berkeley), Assistant Professor of Sociology
Ching, Doris M., B.Ed. (Hawaii), Instructor in Education
Chirlia, Marilee, M.A. (Hawaii), Instructor in English
Choe, Yong-ho, Ph.D. (Chicago), Assistant Professor of History
Chui, Edward F., Ph.D. (Iowa), Professor of Health & Physical Education
Chung, N. H. Paul, Ph.D. (Michigan State). Associate Professor of Business Economics & Quantitative Methods
Church, Carolyn, M.A. (Washington), Instructor in English
Clark, Richard H., M.A. (Michigan). Assistant Professor of Mathematics
Cole, Robert E., Ph.D. (Hawaii). Associate Professor of Psychology
Collins, D.Wane R., Ed.D. (Columbia), Professor of Education
Comitini, Salvatore. Ph.D. (Washington). Associate Professor of Economics
Congdon, Charles, M.B.A. (Columbia). Associate Professor of Business Economics & Quantitative Methods
Connors, James J., Ph.D. (Yale). Associate Professor of History
Cornell, Lois. M.Ed. (Pacific Lutheran). Lecturer in Education
Cren, Eileen. Ph.D. (Yale). Assistant Professor of History
Cren, John, Ph.D. (Michigan). Associate Professor of German
Creekmore, Wayne, M.F.A. (Yale). Assistant Professor of Art
Crisfield, Arthur G., M.A. (Hawaii). Instructor in Lao
Cubberly, Ray E., Ph.D. (Wisconsin). Assistant Professor of History
Currie, Edward M., Ph.D. (Minnesota). Associate Professor of Accounting
Damon, Philip, M.F.A. (Iowa). Instructor in English
Daniels, P. Anders, Ph.D. (Michigan). Assistant Professor of Meteorology
Dardjowidjojo, Soenjono, Ph.D. (Georgetown). Assistant Professor of Indonesian
Dator, James, Ph.D. (American). Associate Professor of Political Science
Davidson, Russell, M.F.A. (Ohio). Instructor in Art
Dawson, Steven M., M.B.A. (Michigan). Assistant Professor of Finance
DeFeo, Vincent J., Ph.D. (Ohio State), Professor of Anatomy
deGuzman, Videa, M.A. (California at Los Angeles). Instructor in Tagalog
deHeer, Gerrit K., M.A. (California at Berkeley). Lecturer in Indonesian
DeMello, Wayne, M.Ed. (Northwestern). Lecturer in Music
DeMoss, John, M.A. (Kansas). Instructor in English
Denham, William, M.A. (California at Berkeley). Instructor in English
Denney, Reuel, B.A. (Dartmouth). Professor of American Studies
Derrick, John, M.A. (California at Berkeley). Instructor in English
Devaney, Dennis M., Ph.D. (Hawaii). Lecturer in Zoology
Diamond, Milton, Ph.D. (Kansao). Professor of Anatomy
Dias, Austin, Ph.D. (Wisconsin). Assistant Professor of Spanish
Dixon, Hayes, M.Ed., M.A. (Hawaii). Instructor in Education
Drinkard, Stephen, M.A. (California at Los Angeles). Instructor in English
Dubanski, Richard A.. Ph.D. (Minnesota). Associate Professor of Psychology
Dugal, Don, M.F.A. (Hawaii). Lecturer in Art
Dumont, Paul F., M.B.A. (Hawaii). Instructor in Management
Dunn, Jeffrey, M.F.A. (Florida). Assistant Professor of Art
Dunn-Rankin, Peter, Ed.D. (Florida). Associate Professor of Education
Dunwell, Robert R., Ed.D. (Kansas at Lawrence). Professor of Education
Earickson, Robert J., Ph.D. (Washington). Assistant Professor of Geography
Ebel, Robert, Ph.D. (Purdue). Assistant Professor of Economics
Edel, Leon, Dr.-es-lettres (Paris). Professor of English
Edelstein, Arnold, Ph.D. (California at Berkeley). Assistant Professor of English
Ekroth, Lauren E., Ph.D. (Minnesota). Assistant Professor of Speech-Communication
Ellis, Dean S., Ph.D. (Purdue). Associate Professor of Management
El-Ramly, Nabil, Ph.D. (California at Los Angeles). Assistant Professor of Business Economics & Quantitative Methods
Everson, Marion, M.F.A. (Cranbrook Academy). Assistant Professor of Art
Ezer, Melvin, Ed.D. (Harvard). Professor of Education
Faison, Edmund W., Ph.D. (George Washington). Associate Professor of Marketing
Fand, Richard M., Ph.D. (Cornell). Professor of Mechanical Engineering
Fargo, George A., Ph.D. (Claremont Graduate School). Associate Professor of Education
Fellers, David P., Ph.D. (Arizona). Assistant Professor of Science
Feltz, William E., B.A. (Lewis & Clark College). Instructor in Music
Fischer, Joel, D.S.W. (California at Berkeley). Associate Professor of Social Work
Fleming, Robert A.A. (Los Angeles City College). Lecturer in Music
Fletcher, Sally, B.A. (California at Los Angeles). Lecturer in Art
Forman, Michael L., Ph.D. (Cornell). Assistant Professor of Linguistics
Franz, Patricia, M.A. (Wisconsin). Instructor in English
Frazier, Gordon, Ph.D. (Southern Illinois). Associate Professor of Education
Friedman, Daniel, M.A. (Hawaii). Instructor in Political Science
Friedman, Harry, Ph.D. (Pittsburgh). Professor of Political Science
Frierson, J. Wright, Ph.D. (Stanford). Professor of English
Fruehling, Royal T., Ed.D. (Stanford). Assistant Professor of Education
Fuller, Daniel W., Ph.D. (Denver). Professor of Education
Fuller, Stephen, M.M. (Southern California). Instructor in Music
Gasinski, Tadeusz, Ph.D. (Stanford). Associate Professor of Russian
Gething, Thomas W., Ph.D. (Michigan). Assistant Professor of Thai
Ghali, Moheb A., Ph.D. (Washington). Assistant Professor of Economics
Gilton, Thomas Q., Ph.D. (M.I.T.). Professor of Management
Gordon, Jerry L., M.M. (Cincinnati). Assistant Professor of Music
Greenwood, Frederick, Ph.D. (London). Professor of Biochemistry
Gust, Timothy C., Ph.D. (North Dakota). Associate Professor of Education
Haar, Francis (National Academy of Decorative Arts, Budapest). Lecturer in Photography
Haas, Michael, Ph.D. (Stanford). Professor of Political Science
Hadlich, Roger, Ph.D. (Michigan). Professor of Spanish
Haley, Samuel R., Ph.D. (Texas). Assistant Professor of Zoology
Hansen, Ola, Ph.D. (Michigan). Assistant Professor of Education
Hanson, Sue, M.S. (Wisconsin). Instructor in Education
Harpstrite, James J., Ph.D. (Michigan State). Assistant Professor of Education
Harris, Robert, M.A. (Michigan State). Instructor in English
Harter, Edward D., M.A. (Illinois). Assistant Professor of Philosophy
Hass, Bruce M., M.B.A. (California at Los Angeles). Assistant Professor of Finance & Real Estate
Hayes, Charles F., Ph.D. (West Virginia). Assistant Professor of Physics
Hayes, Eloise D., Ph.D. (North Carolina). Professor of Education
Haza, Dorothy O., M.A. (New York). Associate Professor of Education
Hein, Larry, Ph.D. (Indiana). Assistant Professor of Russian
Heinberg, Paul J., Ph.D. (Iowa). Professor of Speech-Communication
Heller, H. Robert, Ph.D. (California at Berkeley). Professor of Economics
Herrick, Raymond B., Ph.D. (Wisconsin). Associate Professor of Poultry Science
Hicks, Morgan A., M.B.A. (Arizona State). Assistant Professor of Finance
Hight, Joseph, Ph.D. (Brown). Assistant Professor of Economics
Hilden, Hugh, Ph.D. (Steven's Institute of Technology). Assistant Professor of Mathematics
Hirschfeld, Rudolf, Ph.D. (Utrecht). Professor of Mathematics
Hisaka, Lloyd, M.Ed. (Oregon State). Instructor in Health & Physical Education
Holmes, John R., Ph.D. (California at Berkeley). Professor of Physics
Horan, Claude, M.A. (Ohio). Professor of Art
Hormann, Bernhard, Ph.D. (Chicago). Professor of Sociology
Hotchkiss, Edward C., Ph.D. (Inter-American). Associate Professor of General Engineering
Hunter, Terry, M.A. (Illinois). Instructor in English
Huntsberry, William, M.A. (Hawaii). Professor of English
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree/Institution</th>
<th>Position/Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junkin, Michael</td>
<td>Ph.D. (Wisconsin)</td>
<td>Professor of Business Economics &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quantitative Methods</td>
</tr>
<tr>
<td>Johnson, Donald D.</td>
<td>Ph.D. (Southern California)</td>
<td>Professor of History</td>
</tr>
<tr>
<td>Johnson, Kenneth L.</td>
<td>Ph.D. (Colorado)</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>Johnson, Rubellite B.A.</td>
<td>Ph.D. (California</td>
<td>Assistant Professor of Hawaiian</td>
</tr>
<tr>
<td>Johnston, Everett E.</td>
<td>Ph.D. (Northwestern)</td>
<td>Assistant Professor of Travel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Industry Management</td>
</tr>
<tr>
<td>Jonish, James</td>
<td>Ph.D. (Michigan)</td>
<td>Assistant Professor of Business</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics &amp; Quantitative Methods</td>
</tr>
<tr>
<td>Joseph, Neal A.</td>
<td>M.Ed. (Hawaii)</td>
<td>Instructor in Education</td>
</tr>
<tr>
<td>Jungbluth, Frank S.</td>
<td>M.B.A. (Hawaii)</td>
<td>Instructor in Accounting</td>
</tr>
<tr>
<td>Junkin, Michael</td>
<td>M.F.A. (California College of Arts &amp; Crafts)</td>
<td>Assistant Professor of Art</td>
</tr>
<tr>
<td>Kainu, Lorraine M.</td>
<td>M.Ed. (Hawaii)</td>
<td>Assistant Professor of Health &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Education</td>
</tr>
<tr>
<td>Kanzaki, Frank N.</td>
<td>M.A. (Kent State)</td>
<td>Lecturer in Education</td>
</tr>
<tr>
<td>Karbans, John P.</td>
<td>M.B.A. (Hawaii)</td>
<td>Instructor in Accounting</td>
</tr>
<tr>
<td>Kaniel, Henry</td>
<td>Ph.D. (California at Berkeley)</td>
<td>Professor of Political Science</td>
</tr>
<tr>
<td>Kaschebaum, Gayatri B.A.</td>
<td>Karnatic Univ., India</td>
<td>Lecturer in Music</td>
</tr>
<tr>
<td>Kau, Joseph</td>
<td>Ph.D. (Tufts)</td>
<td>Assistant Professor of English</td>
</tr>
<tr>
<td>Kauka, Anne</td>
<td>M.A. (Hawaii)</td>
<td>Instructor in American Studies</td>
</tr>
<tr>
<td>Kelley, Nelson L.</td>
<td>Ph.D. (North Texas)</td>
<td>Assistant Professor of Management</td>
</tr>
<tr>
<td>Kennedy, Virginia</td>
<td>M.A. (Western Reserve)</td>
<td>Assistant Professor of English</td>
</tr>
<tr>
<td>Keppel, Ann M.</td>
<td>Ph.D. (Wisconsin)</td>
<td>Professor of Education</td>
</tr>
<tr>
<td>Kerkvliet, Benedict M.A.</td>
<td>Wisconsin</td>
<td>Assistant Professor of Political</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Science</td>
</tr>
<tr>
<td>Kibler, Dennis</td>
<td>Ph.D. (Rochester)</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>Kido, Janice K.</td>
<td>M.A. (Hawaii)</td>
<td>Instructor in Speech-Communication</td>
</tr>
<tr>
<td>Kim, Shinkyung</td>
<td>Ph.D. (Wayne State)</td>
<td>Associate Professor of Business</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics &amp; Quantitative Methods</td>
</tr>
<tr>
<td>Kimball, Thomas F.</td>
<td>J.D. (Santa Clara)</td>
<td>Assistant Professor of Business</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Law</td>
</tr>
<tr>
<td>Kimura, Suko</td>
<td>M.F.A. (Hawaii)</td>
<td>Professor of Art</td>
</tr>
<tr>
<td>King, Phil M.A.</td>
<td>Pennsylvania</td>
<td>Instructor in Political Science</td>
</tr>
<tr>
<td>Kingrey, Kenneth M.A.</td>
<td>California at Los Angeles</td>
<td>Professor of Art</td>
</tr>
<tr>
<td>Kirkpatrick, Arthur M.A.</td>
<td>Illinois</td>
<td>Assistant Professor of Business</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics &amp; Quantitative Methods</td>
</tr>
<tr>
<td>Kleinbergs, Andris M.A.</td>
<td>Washington</td>
<td>Acting Assistant Professor of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Spanish</td>
</tr>
<tr>
<td>Klimenko, Michael</td>
<td>Ph.D. (Erlangen)</td>
<td>Associate Professor of Russian</td>
</tr>
<tr>
<td>Kobayashi, Victor N.</td>
<td>Ph.D. (Michigan)</td>
<td>Associate Professor of Education</td>
</tr>
<tr>
<td>Kochler, Dorothy M.S.</td>
<td>Kentucky</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>Komin, Sunartee M.A.</td>
<td>Hawaii</td>
<td>Instructor in Thai</td>
</tr>
<tr>
<td>Kornhauser, David</td>
<td>Ph.D. (Michigan)</td>
<td>Professor of Geography</td>
</tr>
<tr>
<td>Krahnbuhl, Gary S.</td>
<td>Ed.D. (Colorado State)</td>
<td>Assistant Professor of Health &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Education</td>
</tr>
<tr>
<td>Kramer, Hugh E.</td>
<td>Ph.D. (Karl Franzens)</td>
<td>Associate Professor of Marketing</td>
</tr>
<tr>
<td>Kranzler, Stanley Ph.D.</td>
<td>California at Santa</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>Kraty, Judy M.A.</td>
<td>California at Los Angeles</td>
<td>Acting Assistant Professor of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Spanish</td>
</tr>
<tr>
<td>Krisberg, Jane M.A.S.A.</td>
<td>Ohio State</td>
<td>Associate Professor of Social</td>
</tr>
<tr>
<td>Kucera, Geoffrey Z.</td>
<td>Ph.D. (Michigan State)</td>
<td>Associate Professor of Education</td>
</tr>
<tr>
<td>Kunimoto, Elizabeth N.</td>
<td>Ph.D. (Hawaii)</td>
<td>Assistant Professor of Speech-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Communication</td>
</tr>
<tr>
<td>Kuroda, Yasumasa Ph.D.</td>
<td>Oregon</td>
<td>Associate Professor of Political</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Science</td>
</tr>
<tr>
<td>Laitila, Edward E.</td>
<td>D.B.A. (Indiana)</td>
<td>Associate Professor of Real Estate</td>
</tr>
<tr>
<td>Lang, Melvin Ed.D.</td>
<td>(New York)</td>
<td>Professor of Education</td>
</tr>
<tr>
<td>Larson, Valentine M.A.</td>
<td>Southern California</td>
<td>Assistant Professor of Speech-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Communication</td>
</tr>
<tr>
<td>LeBeck, Beverly</td>
<td></td>
<td>Lecturer in Music</td>
</tr>
<tr>
<td>Ledford, Terry M.A.</td>
<td>(Cincinnati)</td>
<td>Lecturer in Business Analysis &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Statistics</td>
</tr>
<tr>
<td>Lee, Gregory Ph.D.</td>
<td>(Ohio State)</td>
<td>Assistant Professor of Linguistics</td>
</tr>
<tr>
<td>Lee, Matthew C.Y.</td>
<td>Ph.D. (California at Berkeley)</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>Lefforge, Orland S.</td>
<td>Ph.D. (Wisconsin)</td>
<td>Director of Curriculum,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Community Colleges</td>
</tr>
<tr>
<td>Lerond, Antoinette C.A.</td>
<td>Pedagogique (Nancy)</td>
<td>Acting Assistant Professor of French</td>
</tr>
<tr>
<td>Levi, Werner Ph.D.</td>
<td>(Minnesota)</td>
<td>Professor of Political Science</td>
</tr>
<tr>
<td>Levy, Alfred Ph.D.</td>
<td>(Wisconsin)</td>
<td>Professor of English</td>
</tr>
<tr>
<td>Lichty, Lenna M.A.</td>
<td>(Southern California)</td>
<td>Assistant Professor of English</td>
</tr>
<tr>
<td>Lie, Kwan Ph.D.</td>
<td>(Chuo University)</td>
<td>Associate Professor of Business</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics &amp; Quantitative Methods</td>
</tr>
<tr>
<td>Liem, Diep M.A.</td>
<td>(Vietnamese)</td>
<td>Instructor in Vietnamese</td>
</tr>
<tr>
<td>Liem, Nguyen Dang Ph.D.</td>
<td>Australian National</td>
<td>Assistant Professor of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vietnamese</td>
</tr>
<tr>
<td>Linn, James R.</td>
<td>Ph.D. (Southern California)</td>
<td>Director of Honors Program</td>
</tr>
<tr>
<td>Little, James R.</td>
<td>Ph.D. (Iowa)</td>
<td>Associate Professor of Health &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Education</td>
</tr>
<tr>
<td>Liu, Leighton M.F.A.</td>
<td>(Hawaii)</td>
<td>Instructor in Architecture</td>
</tr>
<tr>
<td>Lowe, Howard D.</td>
<td>B.B.A. (Indiana)</td>
<td>Professor of Accounting and Finance</td>
</tr>
<tr>
<td>Lowers, James Ph.D.</td>
<td>(California at Los Angeles)</td>
<td>Professor of English</td>
</tr>
<tr>
<td>Lum, Bert K.B.</td>
<td>M.D. (Kansas)</td>
<td>Professor of Pharmacology</td>
</tr>
<tr>
<td>Lum, Lillian A.</td>
<td>M.Ed. (Hawaii)</td>
<td>Assistant Professor of Education</td>
</tr>
<tr>
<td>Lum, Richard S.</td>
<td>M.Mus Ed. (Northwestern)</td>
<td>Associate Professor of Music</td>
</tr>
<tr>
<td>Lutzky, Seymour Ph.D.</td>
<td>(Iowa)</td>
<td>Professor of American Studies</td>
</tr>
<tr>
<td>MacDonald, Kathleen M.A.</td>
<td>Hawaii</td>
<td>Instructor in English</td>
</tr>
<tr>
<td>MacDonald, W. Scott Ph.D.</td>
<td>California at Los Angeles</td>
<td>Associate Professor of Psychology</td>
</tr>
<tr>
<td>MacMillan, Ian M.A.</td>
<td>(Iowa)</td>
<td>Associate Professor of English</td>
</tr>
<tr>
<td>Mak, James Ph.D.</td>
<td>Purdue)</td>
<td>Assistant Professor of Economics</td>
</tr>
<tr>
<td>Malby, Joseph Ph.D.</td>
<td>(Wisconsin)</td>
<td>Associate Professor of English</td>
</tr>
<tr>
<td>Mandel, Morton Ph.D.</td>
<td>(Columbia)</td>
<td>Professor of Biochemistry</td>
</tr>
<tr>
<td>Mansson, Helge H.</td>
<td>Ph.D. (New York)</td>
<td>Associate Professor of Psychology</td>
</tr>
<tr>
<td>Margolis, Stanley Ph.D.</td>
<td>California at Riverside</td>
<td>Assistant Professor of Oceanography</td>
</tr>
<tr>
<td>Marsella, Anthony J.</td>
<td>Ph.D. (Pennsylvania State)</td>
<td>Associate Professor of Psychology</td>
</tr>
<tr>
<td>Martin, John C.</td>
<td>Ph.D. (Rice)</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>Martin, Robert M.</td>
<td>Ph.D. (Washington)</td>
<td>Professor of Education</td>
</tr>
<tr>
<td>Martens, Stephen L.</td>
<td>Ph.D. (Southern California)</td>
<td>Associate Professor of Health &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Education</td>
</tr>
<tr>
<td>Martinez, Albert B.S.</td>
<td>(Florida)</td>
<td>Associate Professor of Plant Pathology</td>
</tr>
</tbody>
</table>
Masterson, Lawrence J., M.A. (Michigan State), Assistant Professor of Geography
Matson, Floyd W., Ph. D. (California at Berkeley), Professor of American Studies
McCarthy, Harold E., Ph. D. (California at Berkeley), Professor of Philosophy
McCutcheon, James, Ph. D. (Wisconsin), Associate Professor of History & American Studies
McDermott, Terrence S., Ph. D. (Southern California), Assistant Professor of Mathematics
McFarland, James L., M. A. (Hawaii), Instructor in Psychology
McHenry, Robert, Ph. D. (Michigan), Assistant Professor of English
McIntosh, Dean K., Ed. D. (California at Los Angeles), Associate Professor of Education
McKean, Ruth, M.A. (Hawaii), Instructor in English
McKeegan, Michelle, M.A. (Wisconsin), Instructor in English
McKnight, Brian E., Ph. D. (Chicago), Associate Professor of History
McLeod, Russell E., M.A. (Hawaii), Acting Assistant Professor of Chinese
McPherson, D. Frank, Ph. D. (Purdue), Associate Professor of Speech Pathology & Audiology
Meredith, Connie G. W., M.A. (Illinois), Assistant Professor of Human Development
Merz, Karen, M. A. (Northwestern), Instructor in English
Mikami, Kay, Shihan (Miya-Kyo, Japan), Lecturer in Music
Miller, H. Laurence, Jr., Ph. D. (Harvard), Professor of Economics
Minke, Karl A., Ph. D. (Wisconsin), Assistant Professor of Psychology
Mock, G. Wesley, M.S. (West Chester State College), Acting Assistant Professor of Health & Physical Education
Mockridge, Susan, M.A. (Wisconsin), Instructor in English
Monroe, Irel E., Ph. D. (Washington), Assistant Professor of Mathematics
Montes, Matias, Ph. D. (Havana), Associate Professor of Spanish
Montes, Yara, Ph. D. (Havana), Assistant Professor of Spanish
Mookini, Edward H., Ph. D. (California at Los Angeles), Professor of Mathematics
Moore, Cornelia, Ph. D. (Indiana), Assistant Professor of German
Moore, Ronald M., Ph. D. (Columbia), Assistant Professor of Philosophy
Morrisson, James, M.A. (Columbia), Instructor in English
Moscoy, Stephen A., Ph. D. (Oklahoma State), Assistant Professor of Accounting
Mower, Howard, Ph. D. (California Institute of Technology), Professor of Biochemistry
Mucklo, Margaret, M. F. A. (Bowing Green State), Instructor in English
Mullin, Karen, M.A. (Ohio State), Instructor in Drama & Theatre
Murray, Marjorie, M.A. (California at Berkeley), Instructor in English
Murray, Michael D., Ph. D. (Washington), Assistant Professor of Psychology
Muscat, Brian J., Ph. D. (Minnesota), Assistant Professor of Geography
Nagoshi, Jack T., M.S.W. (Hawaii), Associate Professor of Social Work
Nakasone, Yoshino, Majikina Honryu (Okinawa), Lecturer in Music
Newton, Olivia, M.A. (Ohio State), Assistant Professor of English
Niedzielski, Henri, Ph. D. (Connecticut), Associate Professor of French
Nishiyma, Kazuo, Ph. D. (Minnesota), Assistant Professor of Speech Communication
Noda, Daniel S., Ph. D. (Ohio State), Professor of Education
Norris, Ben, B.A. (Pomona), Professor of Art
Nunn, Raymond, Ph. D. (Michigan), Professor of History & Asian Studies
O'Donnell, Clifford R., Ph. D. (Kentucky), Assistant Professor of Psychology
Ogawa, Dennis, Ph. D. (California at Los Angeles), Assistant Professor of American Studies
O'Halloran, Frances, M.L.S. (Hawaii), Assistant Professor of Library Studies
O'Harrow, Stephen, M.phil. (London), Assistant Professor of Vietnamese
O'Malley, J. Michael, Ph. D. (George Peabody College), Assistant Professor of Education
Ombs, James R., Ph. D. (Pittsburgh), Professor of Accounting
Otsuki, Toshiyuki, M.A. (Wisconsin), Assistant Professor of Business Economics & Quantitative Methods
Pak, Tae-Yong, Ph. D. (Bowling Green State), Assistant Professor of English
Pang, Morris, Ed. D. (Colorado State), Associate Professor of Education
Pang, Tze-Yu, B.A. (New Asia College, Taiwan), Lecturer in Health & Physical Education
Pang-Ching, Glenn K., Ph. D. (Southern California), Associate Professor of Speech Pathology & Audiology
Peterson, Betty Jean, M.A. (Hawaii), Acting Assistant Professor of Anthropology
Peterson, Richard, M.A. (California at Berkeley), Associate Professor of Business Economics and Quantitative Methods
Fleitner, Ruth L., M.A. (Union Theological Seminary), Lecturer in Music
Piekens, Alexander L., Ed. D. (Columbia), Professor of Education
Pietruszewsk, Michael, Ph. D. (Toronto), Assistant Professor of Anthropology
Piannah, Abraham B. A. (Hawaii), Lecturer in Geography
Piannah, Gordon, M.A. (Hawaii), Instructor in Geography
Potter, Francis, Ph. D. (Claremont Graduate School), Associate Professor of Education
Potter, Robert E., Ed. D. (Illinois), Professor of Education
Puuoyodana, Tasanya, M.A. (Georgetown), Instructor in Thai
Rambo, Arthur T., M.A. (American), Acting Assistant Professor of Anthropology
Ramos, Teresita V., M.A. (California at Los Angeles), Instructor in Tagalog
Rapson, Richard L., Ph. D. (Columbia), Associate Professor of History
Reed, S. Arthur, Ph. D. (Michigan), Associate Professor of Zoology
Reesor, Clayton H., D.B.A. (Washington), Associate Professor of Management
Rhee, Sang-Woo, Ph. D. (Hawaii), Instructor in Political Science
Rice, Robert, M.A. (Wisconsin), Acting Assistant Professor of Economics
Richman, Eugene, D. Eng.Sc. (New York), Professor of Management
Rider, Richard L., Ph. D. (Illinois), Professor of Speech-Communication
Rodgers, Theodore, Ph. D. (Stanford), Assistant Professor of English as a Second Language
Roekenklein, Lynne, M.A. (Chicago), Instructor in English
Rogers, Kenneth, Ph. D. (Cambridge), Associate Professor of Mathematics
Rogers, Ritu, M.A. (South Dakota), Instructor in English
Rohrer, Ina, Ph. D. (Michigan State), Assistant Professor of Political Science
Roldan, Juana, Ph. D. (Southern California), Assistant Professor of Spanish
Roep, D. Haigh, Ph. D. (Yale), Assistant Professor of Burmese
Rosario, Florangel Z., Ph. D. (Syracuse), Assistant Professor of Speech Communication
Roster, Fred, M.F.A. (Hawaii), Instructor in Art
Rowell, Annette J., B.Mus. (Eastman School of Music), Lecturer in Music
Rowell, Lewis E., Ph. D. (Rochester), Professor of Music
Rummel, John R., B.A. (Stanford), Lecturer in Architecture
Sakamoto, Gordon, B.A. (Hawaii), Lecturer in Health & Physical Education
Sanderson, Sarah E., Ph. D. (Southern California), Assistant Professor of Speech Communication
Sankey, June H., M.S. (Illinois), Assistant Professor of Fashion Design, Textiles & Merchandising
Sato, Esther, M.A. (Hawaii), Assistant Professor of Education
Sato, Mamoru, M.F.A. (Colorado), Assistant Professor of Art
Scherer, William, Ph. D. (Southern California), Assistant Professor of German
Schofield, Edward, Ed.D. (New York), Professor of Library Studies
Schwitters, Sylvia Y., M.A. (Illinois), Assistant Professor of Human Development
Scott, Jonathan, M.A. (Kansas), Instructor in Art
Seichi, George M., M.S. (Indiana), Assistant Professor of Health & Physical Education
Seidl, Ludwig H., D.Sc., (Vienna University of Technology), Associate Professor of Ocean Engineering
Scitiz, M. Lynn, M.A. (Arizona State), Acting Assistant Professor of English
Seldin, Joseph, Ph.D. (Pittsburgh), Assistant Professor of Sociology
Senecai, Peter, M.A. (Purdue), Instructor in American Studies
Seymour, Richard, Ph.D. (Pennsylvania), Professor of German
Shepel, Jerold, Ph.D. (Waterloo), Assistant Professor of Education
Sharpiro, Michael, Ph.D. (Northwestern), Associate Professor of Political Science
Sharpiro, Norman, M.F.A. (Ohio), Instructor in Art
Sherman, Carl, Ph.D. (Harvard), Assistant Professor of English
Sherill, David M., Ph.D. (Texas), Associate Professor of Education
Shipwright, Edward, M.S. (Juillard School of Music), Assistant Professor of Music
Shukla, Anjan, Ph.D. (Notre Dame), Assistant Professor of Mathematics
Sinclair, Marjorie, M.A. (Mills College), Associate Professor of English
Sitaram, K.S., Ph.D. (Oregon), Assistant Professor of Speech-Communication
Siu, James K.M., M.A. (Hawaii), Assistant Professor of Mathematics
Sogo, Power, Ph.D. (California at Berkeley), Professor of Physics
Solis, Theodore, B.A. (Arizona State), Instructor in Music
Sommarstrom, Allan R., Ph.D. (Washington), Assistant Professor of Geography
Southmore, John H., M.S. (Hawaii), Instructor in Geology
Sparks, Ronald J., Ph.D. (Southern California), Assistant Professor of Education
Spencer, Charles H., D.B.A. (Indiana), Professor of Accounting
Spiegel, Earl, M.A. (Wisconsin), Assistant Professor of Mathematics
Spivogel, Ellen R., Ph.D. (New York), Assistant Professor of Music
Sprague, Ralph, D.B.A. (Indiana), Associate Professor of Business Economics & Quantitative Methods
Standal, Bluebell R., Ph.D. (California at Berkeley), Associate Professor of Food & Nutritional Sciences
Stasack, Edward, M.F.A. (Illinois), Professor of Art
Staudohar, Paul D., Ph.D. (Southern California), Assistant Professor of Industrial Relations
Stellmacher, Herbert B., M.B.A. (Southern Methodist), Assistant Professor of Marketing
Stempel, Daniel, Ph.D. (Harvard), Professor of English
Stout, William T., Ph.D. (Illinois), Assistant Professor of Mathematics
Stueber, Ralph K., Ph.D. (Wisconsin), Professor of Education
Sumida, Stephen, M.A. (Columbia), Instructor in English
Summersgill, Travis, Ph.D. (Harvard), Professor of English
Suzilo, Hardja, M.A. (California at Los Angeles), Assistant Professor of Music
Sutton, George H., Ph.D. (Columbia), Professor of Geophysics
Suzuki, Yukihsia, M.L.S. (Michigan), Professor of Library Studies
Swift, David, Ph.D. (California at Berkeley), Associate Professor of Sociology
Tagomori, Harry T., B.B.A. (Hawaii), Lecturer in Health & Physical Education
Tahara, Mildred K., Ph.D. (Columbia), Assistant Professor of Japanese
Tait, Malcolm J., Ed.D. (Columbia), Associate Professor of Education
Takata, Masakatsu, B.A. (Hawaii), Lecturer in Art
Tanabe, Gilfred, Ph.D. (Purdue), Assistant Professor of Psychology
Taussig, Russell A., Ph.D. (California at Berkeley), Professor of Finance
Taylor, Patricia L., M.S. (Hawaii), Assistant Professor of Medical Technology
Taylor, Ronald C., Ph.D. (Hawaii), Assistant Professor of Meteorology
Teichman, Robert J., Ph.D. (Wayne State), Assistant Professor of Anatomy
Temple, Andrew, M.A. (Stanford), Instructor in Political Science
Thomas, George, Ph.D. (Purdue), Assistant Professor of Business Economics & Quantitative Methods
Thompson, Donnis H., Ed.D. (Colorado), Assistant Professor of Health & Physical Education
Thompson, John A., Ph.D. (Wisconsin), Associate Professor of Education
Thompson, Phyllis, Ph.D. (Wisconsin), Associate Professor of English
Tom, Earlene, B.S. (Oregon), Lecturer in Music
Tominaga, Henry K., Ed.D. (Colorado State College), Assistant Professor of Health & Physical Education
Topham, Helen, M.F.A. (Hawaii), Associate Professor of English
Tracy, Robert A., Ph.D. (Minnesota), Associate Professor of Health & Physical Education
Trimmillo, Ricardo D., M.A. (Hawaii), Assistant Professor of Music
Troxell, Mary D., M.S. (New York), Associate Professor of Fashion Design, Textiles & Merchandising
Tuggle, H. David, Ph.D. (Arizona), Assistant Professor of Anthropology
Turnbull, Murray, M.A. (Denver), Professor of Art
Uehara, Betty K., M.A. (New York), Associate Professor of Education
Uhalley, Stephen J., Ph.D. (California at Berkeley), Associate Professor of History
Upadhyaya, Kashi Nath, Ph.D. (Ceylon), Associate Professor of Philosophy
Uyehara, Yoshika, M.Ed. (Hawaii), Instructor in Education
Van Der Siche, John, M.A. (Hawaii), Instructor in Music
Vann, Sarah, Ph.D. (Chicago), Professor of Library Studies
Van Zile, Judy, M.A. (California at Los Angeles), Instructor in Music
Varney, Sheldon S., Ed.D. (Colorado State), Associate Professor of Education
Vaught, Raymond, Ph.D. (Stanford), Professor of Music
Vella, Walter F., Ph.D. (California at Berkeley), Professor of History
Vitale, Michael R., Ph.D. (Florida State), Assistant Professor of Education
Waite, Deborah, Ph.D. (Columbia), Assistant Professor of Art
Wall, Charles, M.S. (Hawaii), Instructor in Information Sciences
Ward, Jack, M.A. (Hawaii), Assistant Professor of Hawaiian
Wexler, Herbert B., Ph.D. (Pennsylvania), Professor of Psychology
Welden, Terry A., Ph.D. (Michigan State), Associate Professor of Speech-Communication
Weller, Donald, Ph.D. (Hawaii), Instructor in Political Science
Wells, Benjamin B., Ph.D. (California at Berkeley), Associate Professor of Mathematics
Werner, Ralph, M.A. (San Francisco State), Instructor in English
Westcott, Nina A., Ph.D. (Arizona), Assistant Professor of Education
White, Russell E., B.A. (Purdue State), Lecturer in Music
Whitman, Nancy C., Ph.D. (Illinois), Associate Professor of Education
Williams, Jean, Lecturer in Art
Williamson, Jack, Ph.D. (Wisconsin), Associate Professor of Mathematics
Wilson, John M., M.A. (State University of New York at Albany), Assistant Professor of Political Science
Winchester, Betty Jo, Ph.D. (Indiana), Assistant Professor of History
Wingert, Everett A., M.A. (Washington), Assistant Professor of Geography
Winters, Lee E., Jr., Ph.D. (California at Berkeley), Professor of Geography
Winters, Lily, M.A. (Hawaii), Professor of Chinese
Wisnosky, John, M.F.A. (Illinois), Associate Professor of Art
Wittich, Walter J., Ph.D. (Wisconsin), Professor of Education
Wolf, Suzanne, M.F.A. (Michigan), Associate Professor of Art
Worthley, Reginald, Ph.D. (Kansas State), Assistant Professor of Business Economics & Quantitative Methods
Wright, Lloyd, Ph.D. (Harvard), Assistant Professor of English
Yamamoto, George, M.A. (Hawaii), Associate Professor of Sociology
Yamamoto, Kenneth, Ed.M. (Hawaii), Lecturer in Education
Yanagimachi, Ryuzo, Ph.D. (Hokkaido), Associate Professor of Anatomy
Yeh, Yeong-Her, Ph.D. (Minnesota), Associate Professor of Economics
Young, Franklin, Ph.D. (Florida), Associate Professor of Food & Nutritional Sciences
Young, H. Y., M.S. (Hawaii), Associate Professor of Agronomy
Yuen, Jack, M.S. (Colorado State), Professor of Civil Engineering
Zane, Lawrence F.H., Ph.D. (Maryland), Associate Professor of Education
Zettlin, Harry, Ph.D. (Hawaii), Professor of Chemistry
Visiting Summer Faculty

Anello, Michael, Ph.D., Professor of Education, Boston College
Aubert, Jacques, Professor of English, Member of the Faculté des Lettres et Sciences Humaines, University of Lyon
Baird, Rita, M.S., Lecturer in Education, University of Denver
Battig, William F., Ph.D., Professor of Psychology, University of Colorado
Becker, Lee A., Ph.D., Assistant Professor of Psychology, University of Missouri
Chapin, Paul G., Ph.D., Assistant Professor of Linguistics, University of California at San Diego
Chock, Alvin K., M.S., Acting Chief, Environmental Protection Agency, Washington, D.C.
Conner, John, Ph.D., Associate Professor of Education, University of Iowa
Corwin, Ronald, Ph.D., Associate Professor of Sociology, New York University
Cunningham, John D., Ed.D., Professor of Education, Keene College
Fial, Ronald A., Ph.D., Assistant Professor of Psychology, Reed College
Gathercole, Peter W., M.A., Curator, University Museum of Archaeology and Ethnology, Cambridge
Gerard, Harold B., Ph.D., Professor of Psychology, University of California at Los Angeles
Geurts, Michael D., D.B.A., Assistant Professor of Marketing, University of Oregon
Gillespie, Margaret, Ed.D., Associate Professor of Education, Marquette University
Goldstein, Arnold P., Ph.D., Professor of Psychology, Syracuse University
Grant, David A., Ph.D., Professor of Psychology, University of Wisconsin
Haislotes, Thomas J., Ph.D., Dean, Graduate School, College of Business Administration, Xavier University
Higginbotham, Jr., A. Leon, J.D., Judge, United States District Court, Philadelphia, Pennsylvania
Hoffman, Martin L., Ph.D., Professor of Psychology, University of Michigan
Hunsinger, Paul, Ph.D., Professor of Speech-Communication, University of Denver
Johnson, G. Orville, Ed.D., Professor of Education, Ohio State University
Jones, Betty, Lecturer in Drama, Juilliard School
Killian, Lewis, Ph.D., Professor of Sociology, University of Massachusetts
Kitano, Harry H. L., Ph.D., Professor of Sociology and Social Work, University of California, Los Angeles
Kobayashi, Bunji, Ph.D., Professor of Architecture, Nihon University
Lam, Truong Buu, Ph.D., Associate Professor of History, State University of New York, Stony Brook
Ludin, Fritz, Lecturer in Drama, Juilliard School
Mareckward, Albert, Ph.D., Professor of English, University of Michigan
Mohrhardt, Foster, M.A., Senior Program Officer, Council on Library Resources, Washington, D.C.
Nash, Pat N., Ed.D., Professor of Education, The University of Arizona
O'Connell, Sister Laurentia, M.A., Elementary School Supervisor, Sisters of St. Joseph of Carondelet, Minnesota
Pecjak, Vid, Ph.D., Professor of Psychology, University of Ljubljana, Yugoslavia
Ramos, Frank, Ph.D., Assistant Professor of Psychology, San Jose State College
Rieger, Morris, B.S.S., Deputy Secretary General, National Archives, Washington, D.C.
Rodes, John E., Ph.D., Professor of History, Occidental College
Sahota, Gyan S., Ph.D., Professor of Economics, Vanderbilt University
Shutler, Richard, Ph.D., Associate Professor of Anthropology, University of Victoria
Stacy, Gardner W., Ph.D., Professor of Chemistry, Washington State University, Pullman, Washington
Takemoto, Kenneth K., Ph.D., Senior Investigator, National Institute of Allergy and Infectious Diseases, National Institutes of Health
Tart, Charles T., Ph.D., Associate Professor of Psychology, University of California at Davis
Trail, Ira D., Dr. P.H., Professor of Nursing, California State College at Bakersfield
Vogt, Evan, Ph.D., Professor of Anthropology, Harvard University
Wallen, Norman, Ph.D., Professor of Education, San Francisco State College
Wear, Larry, Ph.D., Associate Professor of Information Sciences, Stanford University
Weaver, Max, M.S., Professor of Education, Brigham Young University
Welch, Ronald, Ed.D., Professor of Education, Indiana University
Witayaarat, Prasert, Ph.D., Assistant Professor of Geography, College of Education, Prasarnmit, Bangkok
Yang, Daniel S. P., Ph.D., Associate Professor of Drama and Theatre, University of Wisconsin
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, Continuing Education and Community Service, 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 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 bachelor's degree is offered in 70 fields, the master's degree in 65 fields and the doctorate in 35 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, Beta Phi Mu, and Beta Gamma Sigma.
ADMISSION. Applicants who fit any of the following categories need not apply for admission to the summer session ahead of time, but will be required to complete a 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 1972 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, 1972 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.

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. All foreign students who plan to enroll in the summer session must report to the English Language Institute (ELI) office in Moore Hall 570 in order to make arrangements for an evaluation of their English proficiency. Tests for this purpose will be given on Saturday, March 11; Saturday, April 29; and Friday, June 9, 1972.

Registration in ELI Summer Session courses is open to any foreign student who qualifies under any one of the seven categories listed under "Admission" (see above), including foreign students on the waiting list for Fall admission. Placement tests, given on the dates mentioned above, will determine which particular ELI courses a student should enroll in.

Registration for Summer Session ELI courses does NOT of itself imply acceptance for Fall Semester 1972 at the University of Hawaii, Manoa Campus.

Besides the regular ELI courses, the Department of English as a Second Language, in conjunction with the College of Continuing Education and Community Services, also offers H.E.L.P. (Hawaii English Language Program), an intensive 10-week (June 7 to August 14) English program for foreign students. Basic (25 hours/week), intermediate (21 hours/week), and advanced (21 hours/week) levels are planned. For further information, please write to Professor Jason B. Alter, Department of English as a Second Language, 1890 East-West Road, University of Hawaii, Honolulu, Hawaii 96822.

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. A lecturer may refuse a ticket holder's request to audit.

CANCELLATION OF COURSES. The Summer Session will cancel all undergraduate courses with enrollments of 10 or less.

CHANGES. The University reserves the right to make changes in fees, faculty assignments, and time schedules; to cancel classes with inadequate registration; and to set maximum limits for enrollment in certain classes. A final schedule of courses, including changes made after publication of this catalog, will be available at registration time.

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 stu-
DEANS' OFFICES. The offices of the deans in charge of student services are located as follows:

- College of Arts and Sciences, Bachman Annex 10
- College of Business Administration, Business Administration Bldg. C-202
- School of Travel Industry Management, Business Administration Bldg. B-201
- College of Continuing Education and Community Service, Krauss 105
- College of Education, Wist Annex-2 224
- College of Engineering, Keller 119
- College of Health Sciences and Social Welfare
  - School of Medicine, Biomedical Science Bldg. Court B-106
  - School of Nursing, Webster 415
  - School of Public Health, Biomedical Science Bldg. D-208
- School of Social Work, Hawaii 118
- College of Tropical Agriculture, Gilmore 114
- Graduate Division, Spalding 354
- Library Studies, Sinclair 106
- Summer Session, Krauss 101

REGISTRATION FOR THE FIRST TERM

Students desiring to register for the first summer term:

1. A continuing University of Hawaii Manoa Campus student (enrolled for the 1972 Spring semester) goes to the Admissions and Records Office beginning March 1 and no later than April 21 to indicate his intent to enroll. Notification after April 21 of intent to enroll will result in a delay in obtaining registration materials.

2. All other students should request summer session forms from the Summer Session Office and the Admissions and Records Office beginning late February through April 15. These forms must be received by the Admissions and Records Office by April 21 in order to have a packet prepared by May 15.

Registration for the first summer term will begin on Monday, May 15 and continue through Tuesday, June 13.

I. DISTRIBUTION OF PACKETS

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

II. ENROLLMENT. Students will obtain their IBM course cards and pay their fees according to the following schedule (last names):

T—Z: May 15, 22, 30, June 5
A—F: May 16, 23, 30, June 6
G—K: May 17, 24, 31, June 7
L—N: May 18, 25, June 1, 8
O—S: May 19, 26, June 2, 9

All students who have not registered previously: June 13

EACH REGISTRATION DAY WILL BEGIN AT 8:00 A.M. AND END AT 3:00 P.M.

INDIVIDUALS TAKING COURSES ON MANOA AND OFF-CAMPUS DURING ANY PERIOD OF THE FIRST SUMMER TERM WILL REGISTER DURING THE REGULAR SCHEDULED DATES FOR REGISTRATION.

REGISTRATION FOR THE SECOND TERM

Registration for the second term will begin on July 10 and continue through July 24.

I. DISTRIBUTION OF PACKETS

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

II. ENROLLMENT. Students will obtain IBM course cards and pay their fees according to the following schedule (last names):

T—Z: July 10, 17
A—F: July 11, 18
G—K: July 12, 19
L—N: July 13, 20
O—S: July 14, 21

All students who have not registered previously: July 24.

EACH REGISTRATION DAY WILL BEGIN AT 8:00 A.M. AND END AT 3:00 P.M.

INDIVIDUALS TAKING COURSES ON MANOA AND OFF-CAMPUS DURING ANY PERIOD OF THE SECOND TERM WILL REGISTER DURING THE REGULAR SCHEDULED DATES FOR REGISTRATION.
LATE REGISTRATION. Late registration will be permitted until 4 p.m. on Friday, June 16 (first term) and until 4 p.m. Friday, July 28 (second term).

CHANGE OF REGISTRATION. Changes in registration will be permitted from Wednesday June 14 until 4 p.m. Friday June 16 (first term) and from Tuesday July 25 until 4 p.m. Friday July 28 (second term). Change of program forms may be obtained at the college student services office.

For change fees and refunds, see under “Refunds” on p. 18.

STUDENT NUMBERS. Since the University uses Social Security numbers for record keeping, students must 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 cards should arrange with their Social Security officers 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 Postal Service 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.

An activity fee of $2.50 is charged during the first 6-week term. [As the Campus Center is now under construction, an amortization fee is currently under review by the Board of Regents. It is anticipated that summer session enrollees on Manoa Campus will be required to pay this fee. Maximum charge will be $5.75 for enrollees in the first six-week session (combined with the activity fee), and $3.50 building fee for enrollees in the second summer session.]

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:

1. A 100% refund less $5.00 will be made if the student completely withdraws (withdraws from all courses) prior to the first day of classes (4 p.m. on Tuesday June 13 for the first term and 4 p.m. on Monday July 24 for the second term). If the University is responsible for a change in the program, the $5.00 fee will be waived.

2. 75%, until 4 p.m. on June 16 (first term); or until 4 p.m. on July 27 (second term).

3. 37½% thereafter, until 4 p.m. on June 21 (first term); or until 4 p.m. on August 1 (second term).

4. No part of the $40.00 visitor's ticket, special course fee and activity fee is refundable, unless a complete withdrawal is made prior to the first day of classes whereby the student will receive 100% refund less $5.00.

There will be no refunds after June 21 in the first term and after August 1 in the second term. A 100 per cent 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, without approval of the Dean of Summer Session.

The grading system is the same as the fall and spring semesters; A, B, C, D, F, Cr/NC (Credit/No Credit), W (withdrawal, not failing), and I (incomplete). The grade I is not normally used in summer session and may be used only with the written approval of the Dean of Summer Session. It is also necessary to assign an alternate grade alongside the "I" e.g., I becomes D. This alternate grade may be any one of the following, A, B, C, D, F, Cr, NC, or W. This is the grade which will replace the "I" if the student's work is not completed prior to the Thanksgiving recess. If no alternate grade is given, it becomes an F. S GRADES ARE TO BE USED FOR THESIS 800 COURSES ONLY.

WITHDRAWAL. To withdraw from a course a student must obtain a withdrawal form and have it properly filled with all necessary signatures. Partial withdrawal forms are available at the college offices of student services, and the Summer Session office. Complete withdrawal forms may be obtained at the Records Office in Bachman Hall. The effective date of withdrawal is the date recorded by the Treasury Office in Bachman Hall.

If a student withdraws from a course prior to the last five days of instruction in the term, he will receive a grade of W (withdrawal, not failing). After the last date for withdrawals, a student may receive a mark of W if (and only if) he withdraws completely from the University by obtaining a Complete Withdrawal form and fulfilling 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. In order to qualify for higher salary classification, courses must be completed by August 31. Transcripts or grade slips of work done during the summer will be accepted by the Department of Education up to October 31, 1972. Salary adjustments made as a result of such work will be effective as of September 1.

LIBRARY PRIVILEGES. Students will be issued University Summer Session 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 the following research collections: Government Documents, Hawaiian & Pacific, Asia (formerly the East-West Center Library located in Lincoln Hall), Rare Books and Archives. 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.
ENROLLMENT FIGURES. The University of Hawaii summer session is one of the largest in the country. In 1971 a total of 17,924 students enrolled, registering for 78,783 credits. Some 82 per cent of the students were from Hawaii, 12 per cent from the mainland, and 6 per cent from other countries or areas; women students outnumbered the men by about 55 per cent to 45 per cent; and some 60 per cent of the 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 1972 summer session offers many distinctive courses such as the following:

Anthropology: Oceania.
Art: Arts of the Pacific.
Asian and Pacific Languages: Bengali; Burmese; Chinese; Hawaiian; Hindi; Indonesian; Japanese; Korean; Lao; Nepali; Tagalog; Thai; Vietnamese.
Asian Studies: Civilizations of Asia; Study Tour of Asia; Contemporary Chinese Studies.
Botany: Ethnobotany; Identification of Tropical Plants.
Drama: Oriental Drama and Theatre.
Education: Methods and Materials for the Study of Hawaii; History of Education in Hawaii; Zen and Education; Comparative Education; Asia; Survey and Production of Asian and Pacific Study Materials; Dances of Hawaii; Aikido; Karate; Tai Chi Chuan.
English: Literature of the Pacific.
English as a Second Language: The English language in Hawaii.
Geography: China; Southeast Asia; Hawaii.
Geology and Geophysics: Geology of the Hawaiian Islands; Geological Field Trip to Fiji and Australia.
History: Asia, Southeast Asia; China; Hawaiian Islands; United States in the Pacific; Japan; Korea.
Library Studies: Asia Reference Sources.
Music: Asian and Pacific Music in Education; Music Cultures: Indonesia; Institute on Polynesian Music in Music Education; Applied Course in Koto; Art Music of Asia.
Philosophy: Indian; Chinese; Buddhist.

Political Science: Communist China's Foreign Behavior; International Politics of Southeast Asia; Japanese Politics: International Politics of Southeast Asia.
Sociology: Community Forces in Hawaii; People and Institutions of China and Japan.

Workshop in Aerospace Education. June 13—July 13 (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 15 is required. Inquiries should be directed to: Dr. Donald G. Aten, College of Education, University of Hawaii, 1776 University Avenue, Honolulu, Hawaii 96822.

Summer Work-Study Program in Mental Health and Related Areas. June 13—July 21. For students 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 academic work, tutorial conferences, seminars, and study projects. Six undergraduate credits (Sp Ed 200) are offered. Stipends of $500.00 each are awarded to selected students. Inquiries should be addressed to: Dr. Dean K. McIntosh, Department of Special Education, University of Hawaii, 1776 University Avenue, Honolulu, Hawaii 96822.

Training for Community College Teachers of Minority & Low-Income Students. June 19—30. This program is intended to help the community college educator who has had limited personal experience with low income and minority people to develop a better understanding of:
1. How the poor and racial and ethnic minorities live.
2. What the attitudes of the poor and racial and ethnic minorities are towards society generally and education specifically.
3. How poverty and/or cultural difference affects performance in an academic environment.

The primary method employed in creating this awareness is a four day live in experience. Theoretical pre-
presentation and discussion sessions are held with low income and minority community residents and students. Inquiries should be addressed to: Mr. Sidney Rosen, 2500 Campus Road, Hawaii Hall, University of Hawaii, Honolulu, Hawaii 96822.

**National Science Foundation Institute.** The National Science Foundation has funded a Summer Institute for teams of teachers and administrators who wish to improve their social science curriculum at the upper elementary level through the introduction of an innovative program—Man: A Course of Study (MACOS).

Teams will be selected to participate in a full-time four week Institute from June 26 to July 21 which will provide intensive instruction in both the content and processes of MACOS utilizing demonstration classes of children. Following the initial Institute participants are expected to implement the MACOS program in their schools and attend a series of in-service sessions during the subsequent 1972-73 school year.

Participants who are selected will receive summer stipends of $60.00 per week for Oahu residents or $75.00 per week plus round-trip air fare for neighbor island residents.

The Program is a cooperative venture with The Church College of Hawaii at Laie, therefore, one section of the Summer Institute will be held at Laie. All neighbor island and north shore Oahu participants should request information and permission from Dr. Robert Laird to register for ED 536, Practicum in Social Science (6 credits) at The Church College of Hawaii (293-9211, ext. 206).

All other participants will attend the Honolulu section and should request information and permission to register from Dr. Melvin Lang at the University of Hawaii (944-8982) for Ed CI 540 (10) Practicum in Curriculum Development: Social Science (6 credits).

Participants will not be charged tuition fee by either Institution.

**Social and Cultural Study Tour of the USA.** June 14—July 24. This tour of the U.S. is designed as an examination of the historical, cultural and sociological aspects of American society with particular reference to the problems of American urban life. The tour leader will be Dr. Seymour Lutzky, chairman of the Department of American Studies. The itinerary will include all geographic regions of the U.S. and travel will be by both bus and air. The trip will survey areas usually seen on regular tours but will also go into the off-beat places such as the Navajo Indian Reservation, steel mills and breweries, stock cattle farms and the Houston Space Center. Travel arrangements will be handled by Mrs. Ruth Rittmeister, manager of International Travel Service of Honolulu. Inquiries should be addressed to Dr. Seymour Lutzky, 1890 East-West Road, Moore Hall 306, University of Hawaii, Honolulu, Hawaii 96822.
Art and Architecture Study Tour. June 9—July 21. A tour to Japan will be conducted by Mr. John Rummell, Lecturer in the Department of Architecture. The tour is restricted to students currently enrolled at the University of Hawaii. Travel arrangements will be handled by Odyssey Tours. For particulars, see: Mr. John Rummell, George Annex B-2, University of Hawaii.

Study Tour of Asia. July 18—August 19. A study tour of the Far East, and Southeast Asia will be led by Dr. Teruo Ihara, Professor of Education. After a week of lectures and programs on campus, the group will leave Honolulu on July 18. The itinerary will include Bangkok, Hong Kong, and Japan. Permission has been requested to include the People’s Republic of China. If permission is not granted to enter China, the tour will go to the South Pacific. Travel arrangements will be handled by Mrs. Ruth Rittmeister, Manager of International Travel Service of Honolulu. Inquiries should be addressed to: Dr. Teruo Ihara, 1776 University Avenue, Wist 215, Honolulu, Hawaii 96822.

Asian Study Tour to Japan. June 17—July 15. A four-week summer study tour to Japan designed to give those interested in the Japanese language and culture a first hand look at the country and an opportunity to experience Japanese living in Japan. The tour offers lectures by distinguished Japanese scholars on various aspects of Japan and its people. Participants will have a week of “home stay” with selected Japanese families and also take part in various activities with Japanese students in Japan. Inquiries should be addressed to: Professor Esther Sato, Wist Hall 209-C, College of Education, University of Hawaii, Honolulu, Hawaii 96822.

Curriculum Materials Study Tour of Japan. June 17—July 15. This study tour is a counterpart of the Asian Study Tour to Japan designed especially for teachers who are interested in the study of curriculum and resource materials on Japan in various subject areas. It offers a first hand experience in Japan to see, hear, taste, smell and live Japanese in cultural context. Following a short orientation on the University of Hawaii campus, activities in Japan will include lectures by distinguished scholars; seminars and discussions with Japanese teachers and students; tours of famous cities, historic and religious establishments, factories, schools, museums, book stores, shopping districts, and amusement places with accommodations at first-rate Japanese Inns. A week of “live-in” with selected Japanese families will be an option. Inquiries should be addressed to: Professor Esther Sato, Wist Hall 209-C, College of Education, University of Hawaii, Honolulu, Hawaii 96822.

Study Tour of Europe (Returning Via Asia). July 7—August 21. A study tour of Europe, including the USSR and returning around the world via Asia, will be led by Dr. James McCutcheon, Associate Professor of History and American Studies. After a week of orientation on campus, the group will depart for Europe on July 7 via Los Angeles. The itinerary includes: London, Stratford-on-Avon, Paris, Frankfort, Rudesheim, Heidelberg, Lucerne, Lugano, Florence, Pisa, Rome, Venice, Innsbruck, Salzburg, Agra, Stuttgart, Berlin, Leningrad, Moscow, New Delhi, Bangkok, Hong Kong and Tokyo. Permission has been requested to include the People’s Republic of China. Travel arrangements will be handled by Mrs. Ruth Rittmeister, manager of International Travel Service of Honolulu. Inquiries should be addressed to: Dr. James McCutcheon, 1890 East-West Road, Moore 303, Honolulu, Hawaii 96822.

Geological Field Trip to Australia. August 3—August 25. A trip down under to observe some of the fascinating geologic features of Australia. After arriving in Sydney the group will travel by bus, boat, train and plane to visit such points as the Hawkesbury sandstone region, Great Keppel Island on the Barrier Reef, Mt. Morgan mines near Rockhampton, the Atherton tablelands and Green Island in the vicinity of Cairns, Mt. Isa mines in the interior, Alice Springs, Ayers Rock and Mt. Olga in the vast outback, and Broken Hill mines in the southeastern section. Enrollment is limited to 30 persons. A satisfactory report is required at the completion of the trip. Group leaves Honolulu August 3 on Canadian Pacific Airlines. The travel agent is Canadian Pacific Airlines. The travel agent is Canadian Pacific Airlines, Honolulu. Inquiries should be addressed to Dr. Agatin T. Abbott, Department of Geology and Geophysics, 2525 Correa Road, University of Hawaii, Honolulu, Hawaii 96822.

Geological Field Trip to British Columbia, Canada. July 30—August 16. A trip through some of the world’s most spectacular alpine scenery from Vancouver across the Canadian Rockies. Participants will travel by motor coach. The leader is John H. Southworth, Instructor in Geology. Special visits will be made to several underground and surface copper, lead, and zinc mines, a coal mine, and the smelter at Trail. Numerous stops include ample time for rock, mineral and fossil collecting and study. Classic features of glaciology, geomorphology and stratigraphy in British Columbia will be viewed and visited. Enrollment limited to 30. Travel agent is Canadian Pacific Airlines, Honolulu. Inquiries should be addressed to John H. Southworth, Hawaii Institute of Geophysics, Room 342, University of Hawaii, 2525 Correa Road, Honolulu, Hawaii 96822.
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 Wednesday 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 1972 will be printed in Summer Salute 1972, 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 at Hemenway Hall for $2.50 each up to a maximum of $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 transferable. 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 day, Monday through Friday. Its services include 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 sixteenth annual Festival of Arts of This Century will be presented concurrently with the summer session, June 26 to July 17. Sponsored by the University of Hawaii Summer Session, the University of Hawaii Foundation and the State Foundation on Culture and the Arts, 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.

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.

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.
ON CAMPUS HOUSING. The University of Hawaii residence halls have excellent accommodations on campus for the single student. Situated at the foot of cool Manoa Valley, the halls offer a breath-taking view of the city and are comfortably furnished.

On campus there are six residence halls with a capacity of 1,351. All assignments are made on a first come, first served basis by the date the application is received in this office.

For the first time this year, housing for married students is available. A few floors in Gateway and Hale Aloha will be designated for this group.

Application-contracts must be accompanied by the $25.00 deposit before consideration for space reservation can be made. The contract is for room and board; meals are served Monday through Friday; two programs are available: 10 meals per week (breakfast and dinner) or 15 meals per week (breakfast, lunch and dinner).

SIX-WEEK CONTRACT

I. Room ($146 - *25) .................................. $121.00
   Board (10 meals per week) .......................... 81.20
   ........................................................... $202.20

II. Room ($146 - *25) .................................. $121.00
    Board (15 meals per week) .......................... 91.35
    ........................................................... $212.35

Single rooms in Hale Laulima,
    Johnson Hall, Hale Aloha ($180.50 - $25) ...... 155.50

*25.00 deposit is applicable to the rental fees.

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 114 residents in double rooms and one in a single room.
Gateway House: Accommodates 208 residents in double rooms.
Hale Laulima: Accommodates 140 residents in double rooms and 14 in single rooms.
Hale Aloha: Accommodates 250 residents in double rooms and 5 in single rooms in each of two towers.

Residence hall facilities are available only during the first six-week term.

OFF CAMPUS HOUSING. The student who chooses not to live in the University residence halls is cautioned to be prepared to make temporary housing arrangements in hotels or other quarters, if possible, in advance, and to keep in mind that rental rates can quickly use up personal funds. All possible avenues of searching for housing including newspapers, rental agencies, and personal or professional contacts in the community or other sources, should be utilized. There is no place on campus to which luggage or mail may be forwarded ahead of arrival.

The Student Housing Office offers a free central listing service and maintains listings of rooms in private homes, a few apartments, houses and room and board situations. However, these listings are very limited and quickly exhausted. Moreover, contacts with these off-campus landlords must be made directly by the student. Because of the rapid turnover the names of landlords cannot be sent through the mail. The rush for housing usually starts about three weeks prior to beginning of classes. The general housing picture is one of extreme shortage; this means expense and difficulty in the location of suitable accommodations.

Inquiries concerning housing should be directed to the Student Housing Office, Johnson Hall-A Basement, 2555 Dole Street, Honolulu, Hawaii 96822.
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 services from 8:30 a.m. to 11:45 a.m. and from 12:30 p.m. to 4:15 p.m., Monday through Friday; and 9:00 a.m. to 11:00 a.m. on Saturdays. A nurse is available for emergencies at all other times during the first term only. Beds are available in the infirmary for medical care of minor illness; this service is also available only during the first term.

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 supplementary medical and hospital coverage while he is on campus.

Summer session students who have special medical problems that require close follow up 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.

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 20 years of age or under, he or she must obtain a Hawaii license. A parental consent card must be filed with the Honolulu Police Department. This form may be obtained at police headquarters in Honolulu. A duly notorized statement signed by the drivers’ parents must be submitted for consideration by the Honolulu Police Department. Also a written and road test must be successfully completed. A driver 20 years and under 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 Bachman 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 very 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.
Only students who were registered as full-time University of Hawaii students in the 1972 spring semester and will re-enroll at the University of Hawaii in the 1972 fall semester, or who will graduate from the University of Hawaii in the summer of 1972 will be considered for summer National Defense Student Loan, State Higher Education Loan, and Nursing Student Loan. Filing deadline is April 1, 1972. Maximum loan for each summer session is $250.

**TUTORING AND SERVICES TO HANDICAPPED.** A tutoring service is maintained by the University in its *Kokua* program. This service assists students who need special, but temporary, assistance in a particular subject. Students may be referred to *Kokua* by an academic adviser or by an instructor; self-referrals are also accepted.

Aids to students who have physical impairments are offered by the University, also through *Kokua*. Students who will need special assistance because of physical handicaps should apply as early as possible to this office. *Kokua* provides student aids, help with registration, readers for the blind, and other help to students who need special assistance in order to attend classes.

**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.
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  75-MINUTE CLASSES
7:45- 8:35          7:20- 8:35
9:10-10:00         8:45-10:00
10:10-11:00        10:10-11:25
11:35-12:25        11:35-12:50
1:35- 2:25         1:10- 2:25
2:35- 3:25         2:35- 3:50
FIRST TERM
June 13–July 21

AGRICULTURE, TROPICAL

Agriculture (Ag)
399 Agricultural Thesis (v.) S. Goto

Agricultural Economics (AgEc)
399 Directed Study (v.) F. S. Scott
Limited to exceptional undergraduate students who are qualified to carry on advanced study. Pre: consent of instructor.
699 Directed Research (v.) F. S. Scott
800 Thesis (v.) Staff

Agricultural Engineering (AgEng)
699 Directed Research (v.) J. K. Wang
800 Thesis (v.) Staff

Agronomy (Agron)
499 Directed Study (v.) D. Bartholomew
699 Directed Research (v.) D. Bartholomew
799 Directed Research (v.) D. Bartholomew
800 Thesis (v.) Staff

Animal Sciences (AnSc)
341 Livestock Management (3) R. Herrick
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 8:00-12:00 Waialee Farm
499 Directed Study (v.) R. W. Stanley
699 Directed Research (v.) R. W. Stanley
800 Thesis (v.) Staff

Entomology (Ento)
699 Directed Research (v.) W. Mitchell
800 Thesis (v.) Staff

Food Science & Technology (FdSc)
699 Directed Research (v.) R. Moser
800 Thesis (v.) Staff

Horticulture (Hort)
499 Directed Study (v.) H. Kamemoto
699 Directed Research (v.) H. Kamemoto
799 Directed Research (v.) Staff
800 Thesis (v.) Staff

Plant Pathology (PPath)
499 Directed Research (v.) O. V. Holtzmann
605 Clinical Plant Pathology (2) A. Martinez
Recognition of plant diseases; emphasis upon familiarization with broad spectrum of tropical plant diseases. Evaluation of disease problems in the field; diagnosis and identification of plant pathogens in the laboratory. Pre: 410 and consent of instructor.
Daily 8:30-1:30
699 Directed Research (v.) O. V. Holtzmann
800 Thesis (v.) Staff

Soil Science (Soils)
499 Directed Study (v.) S. El-Swaify
699 Directed Research (v.) S. El-Swaify
799 Directed Research (v.) S. El-Swaify
800 Thesis (v.) Staff

AMERICAN STUDIES (AmSt)

201 Introduction to American Civilization (3) A. Kauka, P. Senecal
(2 sections)
The central concerns of contemporary American life and thought studied in the light of multidisciplinary perspectives.
Daily (1) 8:45-10:00 (Senecal)
(2) 8:45-10:00 (Kauka)
370 Music in Modern America (3) R. Trimillos
Varieties of music, including jazz and popular forms, in contemporary American life, with relevant antecedents. Pre: freshmen admitted only with permission of instructor. (Identical with Music 370)
Daily 11:35-12:50
465 Popular Culture in America (3) F. Matson
Examination of the major themes, modes and media of popular mass culture in the U.S., with emphasis on cultural trends and social implications.
Daily 11:35-12:50
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>490(2)</td>
<td>Special Topics: Contemporary Position of Japanese-Americans in Hawaii (3)</td>
<td>D. Ogawa</td>
<td>3</td>
<td>Analysis of the Japanese-American as middle man in Hawaiian society. Investigations of Japanese teachers in the DOE, Japanese secretaries and various other middle man roles in which Japanese-Americans find themselves. Daily 8:45-10:00</td>
</tr>
<tr>
<td>490(4)</td>
<td>Mainland and Local Japanese-Americans: A Comparison (3)</td>
<td>H. Kitano</td>
<td>3</td>
<td>Investigation into the experiences and cultural structure of both groups and the perceptions that each group has about the other. Daily 11:35-12:50</td>
</tr>
<tr>
<td>628</td>
<td>Mechanisms of Gamete Interaction (2)</td>
<td>R. Yanagimachi, R. Teichman</td>
<td>2</td>
<td>Current information concerning morphology and physiology of mature mammalian gamete. Specific aspects of gamete interaction prerequisite to fertilization are evaluated at electron microscopic and biochemical levels. Basic techniques of gamete manipulation demonstrated in lab and utilized by the student in <em>in vivo</em> and <em>in vitro</em> experimentation. Pre: consent of instructor. M 1:35-2:25, W 11:35-3:25</td>
</tr>
<tr>
<td>634</td>
<td>Experimental Methods in the Study of Reproductive Behavior (v.)</td>
<td>M. Diamond</td>
<td>v</td>
<td>Individual research on endocrine and neural aspects of sexual behavior in experimental animals. Pre: one year of psychology; one year of zoology; consent of instructor. Hrs. arr.</td>
</tr>
<tr>
<td>699</td>
<td>Directed Research (v.)</td>
<td>V. DeFeo</td>
<td>v</td>
<td>Students learn specific techniques, methodology and pitfalls of experimental research under close guidance by faculty member. Pre: consent of instructor. Hrs. arr.</td>
</tr>
<tr>
<td>800</td>
<td>Thesis Research (v.)</td>
<td>V. DeFeo</td>
<td>v</td>
<td>Pre: consent of adviser. Hrs. arr.</td>
</tr>
<tr>
<td>399</td>
<td>Directed Reading or Research (v.)</td>
<td>R. Lieban</td>
<td>v</td>
<td>Pre: 2.7 grade-point ratio, or 3.0 grade-point in anthropology, or written consent of instructor. Hrs. arr.</td>
</tr>
<tr>
<td>800</td>
<td>Thesis Research (v.)</td>
<td>Staff</td>
<td>v</td>
<td>Pre: classified graduate standing and written consent of instructor. Hrs. arr.</td>
</tr>
</tbody>
</table>
ARCHITECTURE (Arch)

376 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 10:10-11:25

399 Directed Work (2-4)  J. H. Burgess
Pre: 333 and consent of instructor and program chairman. Daily 1:00-5:00

400 Special Projects in Architecture (2-4)  J. H. Burgess
Intensive and specialized work at advanced level in fields of special interest of visiting staff. May be repeated. Pre: advanced standing and consent of program chairman. Daily 1:00-5:00

471 Environmental Psychology (3)  H. Weaver

671 Advanced Environmental Psychology (3)  H. Weaver

699 Directed Work (2-4)  J. H. Burgess
Pre: consent of instructor and program chairman.

ART (Art)

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

For all courses with prerequisites, waivers may be granted for equivalent experience.

It is the policy of the department to retain selected student work for educational purposes with the consent of the student.

101 Introduction to the Visual Arts (3)  M. Turnbull
Nature of visual art and its expression in various forms. Lectures, demonstrations. Offered only as CR/NC. Daily 8:45-10:00

105 Elementary Studio—Ceramics (3)  M. Takata, S. Fletcher
(4 sections)
Studio experience mainly for non-majors. Lectures and projects. Credit cannot count towards major requirements in Art. Daily (1) 7:20-10:00 (Fletcher) (2) 8:45-11:25 (Takata) Farrington High School (3) 1:10-3:50 (Fletcher) (4) 1:10-3:50 (Takata) Farrington High School

106 Elementary Studio—Sculpture (3)  M. Sato
Studio experience mainly for non-majors. Lectures and projects. Credit cannot count towards major requirements in Art. Daily 7:20-10:00

108 Elementary Studio—Drawing and Painting (3)  B. Norris, E. Stanack
(3 sections)
Studio experience mainly for non-majors. Lectures and projects. Credit cannot count towards major requirements in Art. Daily (1) 7:20-10:00 (Norris) (2) 7:20-10:00 (Stanack) (3) 10:10-12:30 (Stanack)

113 Introductory Studio “A” (3)  D. Dugal, M. Turnbull
(2 sections)
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. Pre: 101 (may be taken concurrently). Offered only as CR/NC. Daily (1) 10:10-12:50 (Turnbull) (2) 1:10-3:50 (Dugal)

114 Introductory Studio “B” (3)  J. Dunn, K. Bushnell
(2 sections)
Emphasis on light: environmental; general intensity; value range; sources; chiaroscuro; pattern; principles of color. Problems in two and three dimensions involving drawing, painting, sculpture, design. Pre: 101 (may be taken concurrently). Offered only as CR/NC. Daily (1) 7:20-10:00 (Dunn) (2) 10:10-12:50 (Bushnell)

115 Introductory Studio “C” (3)  M. Junkin
Emphasis on space: environmental; actual and illusionary; changing spatial systems and space modifiers. Problems in two and three dimensions involving drawing, painting, sculpture, design. Pre: 101 (may be taken concurrently). Offered only as CR/NC. Daily 10:10-12:50

116 Introductory Studio “D” (3)  J. Wisnosky, L. Liu
(2 sections)
Emphasis on time, motion, systems: visual kinetics sequence, rhythm, order and systems. Problems in two and three dimensions involving drawing, painting, sculpture, design. Pre: 101 (may be taken concurrently). Offered only as CR/NC. Daily (1) 7:20-10:00 (Wisnosky) (2) 10:10-12:50 (Liu)

213 Life Drawing (3)  S. Kimura
Drawing from the model. Daily 7:20-10:00

214 Life Drawing (3)  K. Bushnell
Drawing from the model. Pre: 213. 214 may be repeated. Daily 1:10-3:50

216 Printmaking—Lithography (3)  R. Davidson
Technical controls; development of concepts appropriate to lithography. Daily 10:10-12:50

223 Painting “A” (3)  J. Wisnosky
Painting from studio and outdoor subject matter. Elements of pictorial style. Daily 10:10-12:50

224 Painting “B” (3)  B. Norris
Painting from identifiable sources; emphasis on expression and structure. Oil and related media. Pre: 223. Daily 10:10-12:50

230 Textile Design (3)  M. Everson
Design problems for production of printed fabric utilizing silk screen techniques. Seminars. Daily 7:20-10:00

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)  S. Wolfe
Introduction to ceramic forms using hand building and wheel throwing techniques. Introduction to glazing techniques and surface treatment. Seminars. Daily 10:10-12:50
244 Ceramics B (3) C. Horan, F. Beaver
(2 sections)
Daily (1) 7:20-10:00 (Horan)
(2) 1:10-3:50 (Beaver)

253 Sculpture (3) F. Roster
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

270 Aspects of European and American Art (3) J. Scott
Major developments in arts of Europe and America.
Daily 11:35-12:50

330 Advanced Textile Design (3) M. Everson
Daily 10:10-12:50

341 Advanced Ceramics (3) C. Horan
Wheel throwing or hand building. Individual development. Seminars. Pre: 244. May be repeated.
Daily 10:10-12:50

353 Advanced Sculpture (3) M. Sato
Individual projects stressing experimentation and subjective approach to form. Seminars. Pre: 254, 255. May be repeated.
Daily 10:10-12:50

361 Letter Forms (3) W. Creekmore
Design and communication. The letter as visual symbol and element in design organization.
Daily 8:45-11:25

376 Arts of the 19th Century (3) J. Scott
Architecture, sculpture and painting of Europe. Pre: 270.
Daily 8:45-10:00

402 Glass Blowing (3) C. Horan
Continuation of 401. The designing, construction and using of molds to blow glass in, for utilitarian and sculptural objects. Construction of glass furnaces and lehrs.
Daily 10:10-12:50

475 Arts of the Pacific (3) D. Waite
Stylistic and aesthetic characteristics of indigenous arts of Oceania, including Australia, Indonesia, Micronesia, Melanesia, Polynesia.
Daily 8:45-10:00

476 Primitive Art (3) D. Waite
Survey of styles and aesthetic characteristics of arts of preliterate cultures.
Daily 11:35-12:50

630 Textile Design (3) M. Everson
Individual problems in areas of specific interest within textile field. Seminars. Pre: consent of chairman and instructor. May be repeated.
Daily 10:10-12:50

646 Ceramics (3) C. Horan
Individual problems in advanced ceramics using hand building techniques. Seminars. Pre: consent of chairman and instructor. May be repeated.
Daily 7:20-10:00

ASIAN STUDIES (Asian)

241 Civilizations of Asia (3) B. E. McKnight
Historical survey of major civilizations of Asia from earliest times to 1500, including East Asia, Southeast Asia, and South Asia. (Identical with Hist 241.)
Daily 7:20-8:35

242 Civilizations of Asia (3) B. E. McKnight
Historical survey of major civilizations of Asia from 1500 to present, including East Asia, Southeast Asia, and South Asia. (Identical with Hist 242.)
Daily 10:10-11:25

601 Contemporary Chinese Studies Seminar (3) S. Uhalley, Jr.
Topical studies of contemporary China including attention to significant historical antecedents. (Identical with Hist 725.)
MTh 1:00-4:00

BIOCHEMISTRY (Bioch)

441 Basic Biochemistry (3) H. F. Mower
Lectures on function and composition of biological substances and their metabolic transformation in animals, plants, micro-organisms. Pre: Chem 113-114, 243, 244 or equivalent.
Daily 8:45-10:00

480 Introduction to Human Endocrinology (2) F. C. Greenwood
Introduction to endocrine system, structure, physiology, hormones as chemicals, their biological effects and regulation of secretion. Pre: 441 or consent of instructor.
Daily 10:10-11:00

481 Introduction to Molecular Biology (2) M. Mandel
Biochemical basis of life presented in terms of the structure and function of the gene in the production of biological catalysts. Pre: 441 or consent of instructor.
Daily 11:35-12:25

799 Directed Research (v.) M. Mandel

BIOPHYSICS (Bioph)

799 Directed Research (v.) M. Mandel

BOTANY (Bot)

105 Ethnobotany (3) A. K. Chock
Plants and their influence upon culture of Hawaii and Pacific; uses of cultivated and wild plants.
Daily 8:45-10:00

160 Identification of Tropical Plants (2) A. K. Chock
Non-technical course in identification of common plants of tropics. Not open to students who have had 461, not credited for botany major.
Daily 10:00-11:00

181 Plant Life of the Sea (4) Staff
Kinds of marine plants, algae and seaweeds, where they grow, and the part they play in productivity of the sea. Pre: an introductory college biology course. Sea-shore trips.
Daily 7:45-8:35 Laboratory daily (1) 8:45-9:45
(2) 10:10-11:10
### 399 Botanical Problems (v.)
N. Kefford
Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in botany. May be repeated.

### 612 Advanced Botanical Problems (v.)
N. Kefford
Investigation of any botanical problem; reading and laboratory work. Pre: consent of instructor. May be repeated.

### 699 Directed Research (v.)
N. Kefford
Pre: candidacy for Ph.D. degree; consent of instructor.

### 799 Directed Research (v.)
N. Kefford
Pre: candidacy for Ph.D. degree; consent of instructor.

### 800 Thesis Research (v.)
Staff

### BUSINESS ADMINISTRATION

#### Accounting (Acc)

**201 Elementary Accounting (3)**
E. Currie, T. Kimball
(2 sections)
Theory and practice of income determination and asset valuation. Preparation and analysis of statements; uses for decision making. Pre: sophomore standing.
Daily (1) 8:45-10:00 (Currie)
(2) 1:10-2:25 (Kimball)
(Labs to be announced)

**202 Elementary Accounting (3)**
J. Omps
(2 sections)
Theory and practice of income determination and asset valuation. Preparation and analysis of statements; uses for decision making. Pre: 201.
Daily (1) 10:10-11:25 (Omps)
(2) 1:10-2:25 (Omps)
(Labs to be announced)

### 307 Income Tax Problems (3)
C. Spencer
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 8:45-10:00

### 321 Financial Accounting I (3)
H. Lowe
Daily 10:10-11:25

### 325 Financial Accounting III (3)
E. Currie
Daily 11:35-12:50

### Business Analysis and Statistics (BAS)

**122 Mathematics for Decision Making II (3)**
S. Kim
(2 sections)
Applications of mathematical operations to business and economics; equations and their graphs, limits, continuity, derivatives and their use in minimax problems, partials, indefinite and definite integrals, techniques and applications, improper and numerical integrations, distribution functions and multiple integrals. Pre: 121.
Daily (1) 7:20-8:35 (Kim)
(2) 10:10-11:25 (Kim)

**301 Business Statistics (3)**
N. H. Chung
(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. Pre: 122 or 125.
Daily (1) 8:45-10:00 (Chung)
(2) 11:35-12:50 (Chung)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor/Author</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>302</td>
<td>Business Statistics (3)</td>
<td>J. Jonish</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. Pre: 301. Daily 7:20-8:35</td>
</tr>
<tr>
<td>305</td>
<td>Accelerated Business Statistics (3)</td>
<td>J. Jonish</td>
<td>Accelerated version of BAS 301-302 for qualified students, includes descriptive statistics probability, decision making, statistical inference, time series, regression and correlation. Applications to business problems. Pre: 122 or 125 with a grade of B or better. Daily 10:10-11:25</td>
</tr>
<tr>
<td>321</td>
<td>Introduction to Quantitative Analysis (3)</td>
<td>R. Peterson</td>
<td>Tools and techniques for elementary operations research studies; introductory analysis of matrices, determinants and vector analysis for input-output, linear programming and theory of games. Pre: 302, 305 or concurrently. Daily 8:45-10:00</td>
</tr>
<tr>
<td>341</td>
<td>Economic Analysis for Decision Making (3)</td>
<td>K. Lie, G. Thomas</td>
<td>General theory of choice. Demand analysis, production cost analysis; forms of market structure; demand creation and selling costs; factor income determination. Decision making under uncertainty will be introduced. Pre: 201. Daily (1) 7:20-8:35 (Thomas) (2) 10:10-11:25 (Lie)</td>
</tr>
<tr>
<td>343</td>
<td>Business Conditions Analysis (3)</td>
<td>T. Otsuki</td>
<td>Study of the interrelationships of macro-economic events and developments to micro-economic units. Special attention given to the role that GNP, national and regional growth rates, price and employment levels, and monetary and fiscal policies should play in strategic decision making of the firm. Pre: 201. Daily 10:10-11:25</td>
</tr>
<tr>
<td>345</td>
<td>Money, Credit and the Capital Market (3)</td>
<td>A. Kirkpatrick</td>
<td>Nature and functions of money, debt and credit, liquidity; financial institutions and money market analysis; fund flow analysis. 341 students may not receive credit for both 345 and Econ 340. Daily 8:45-10:00</td>
</tr>
<tr>
<td>349</td>
<td>Managerial Economics (3)</td>
<td>G. Thomas</td>
<td>Application of economic and statistical concepts for business decisions using case study methods. Subjects cover projection of demand and production, cost analysis, problems of forecasting, multifactors and multiproducts, technological change; capital budgeting; input-output analysis and programming techniques. Pre: 341. Daily 10:10-11:25</td>
</tr>
<tr>
<td>300</td>
<td>Business Finance (3)</td>
<td>S. Dawson</td>
<td>Introduction to functions, techniques, and problems of business finance; investing in assets, financing strategies, planning and control. Pre: Acc 202. Daily 8:45-10:00</td>
</tr>
<tr>
<td>305</td>
<td>Problems of Business Finance (3)</td>
<td>S. Dawson</td>
<td>Topics include working capital management, evaluation of capital expenditures, financial control and capital structure. Emphasis on widely used business practices along with critical evaluation. Case problems will be used. Pre: 300. Daily 10:10-11:25</td>
</tr>
<tr>
<td>313</td>
<td>Law for the Accountant (3)</td>
<td>T. Kimball</td>
<td>Intensive study of those basic areas of law not covered in Law 300 in which the accountant should have special knowledge. Included are such topics as the law of sales, commercial paper, bailments, insurance, bankruptcy, property, trusts and wills. Special emphasis on subjects represented by questions appearing in the business law section of the C.P.A. examinations. Pre: 300. Daily 8:45-10:00</td>
</tr>
<tr>
<td>301</td>
<td>Management and Organizational Behavior (3)</td>
<td>Staff</td>
<td>Analysis of the management process with particular emphasis on human resources. Daily 10:10-11:25</td>
</tr>
<tr>
<td>302</td>
<td>Operations Management I (3)</td>
<td>E. Richman</td>
<td>Management of the production and operations functions of an enterprise. Pre: BAS 302. Daily 8:45-10:00</td>
</tr>
<tr>
<td>321</td>
<td>Facilities and Productivity Management (3)</td>
<td>E. Richman</td>
<td>Facilities design, the management of production systems, and productivity analysis with emphasis on quantitative applications. Pre: 302. Daily 10:10-11:25</td>
</tr>
<tr>
<td>341</td>
<td>Human Relations in the Organization (3)</td>
<td>T. Gilson</td>
<td>Contributions made by sociology, psychology and related behavioral sciences which assist in the resolution of interpersonal organizational problems. Pre: 301. Daily 2:35-3:50</td>
</tr>
<tr>
<td>345</td>
<td>Business Policy (3)</td>
<td>N. Kelley</td>
<td>Case studies in assessing alternative risks in solving policy problems; an interdisciplinary approach applying and integrating many subjects in college curriculum. Pre: 2nd semester senior standing. Daily 2:35-3:50</td>
</tr>
<tr>
<td>300</td>
<td>Principles of Marketing (3)</td>
<td>M. Geurts</td>
<td>Fundamental concepts and problems of marketing within present economic, legal and social environments; consumer analysis, functional analysis, marketing institutions. Prerequisite to all other marketing courses. Daily 7:20-8:35</td>
</tr>
<tr>
<td>315</td>
<td>Marketing Management (3)</td>
<td>E. Faison</td>
<td>Analysis and solution of problems involving pricing, distribution, product strategy, promotion and marketing research from management view point. Economic and social responsibilities of marketing function emphasized. Pre: BEc 341. Daily 2:35-3:50</td>
</tr>
<tr>
<td>351</td>
<td>Personnel Selection and Training (3)</td>
<td>T. Gilson</td>
<td>Policies and procedures essential to staffing, developing and maintaining proper relationships at all organizational levels. Daily 1:10-2:25</td>
</tr>
<tr>
<td>361</td>
<td>Labor Problems and Trade Unionism (3)</td>
<td>P. Staudohar</td>
<td>Problems and economics of labor; history, structure, government, activities of trade unions; social and labor legislation. Daily 11:35-12:50</td>
</tr>
</tbody>
</table>
The fourteen courses listed below will be offered June 14-August 17 (ten weeks).

**Bus 501 Accounting (3)**
J. Karbens
Basic concepts and procedures with emphasis upon cost accumulation and the preparation, analysis and uses of financial statements. TTh 7:15-9:15 p.m.

**Bus 503 Introduction to Quantitative Methods (3)**
Staff
Elementary survey of basic tools for quantitative analysis for business. (Equivalent to two semesters of introductory statistics. e.g., BAS 301 & 302). MW 7:15-9:45 p.m.

**Bus 504 The Management Process (3)**
J. Bailey
Concepts involved in the management of an organization. TTh 5:00-7:00 p.m.

**Bus 505 Marketing and Operations Management (3)**
H. Reeser
Producing and marketing in today's business environment. MW 5:00-7:00 p.m.

**Bus 601 Managerial Accounting (3)**
H. Lowe
The evaluation and utilization of cost and other quantitative data with emphasis upon its contribution to managerial planning, control and decision making. TTh 5:00-7:00 p.m.

**Bus 621 Managerial Economics (3)**
T. Hailstones
Applications of economic analysis to wide variety of problems in business. Topics include management decision theory, profit, demands, production, cost, pricing, competition, capital budgeting. Pre: 501, 502, 503 or equivalent. TTh 7:15-9:45 p.m.

**Bus 631 Finance (3)**
M. Hicks
Analysis of fundamental financial problems. Financial planning and management, capital budgeting, securities and other financial instruments, financial markets, principal financial intermediaries. MW 7:15-9:15 p.m.

**Bus 641 Management: A Systems Analysis (3)**
J. Bailey
Introduction to the systems concept of management; provides a framework for conceptualizing the interrelationships among all factors relevant to the management process as an integrated whole. TTh 7:15-9:15 p.m.

**Bus 642 Behavioral Science for Business (3)**
T. Gilson
Analysis of social and cultural forces that change the environmental context for management decision-making. Business problems derived from changing patterns of life will be examined in terms of social sciences, such as: anthropology, psychology, and sociology. TTh 5:00-7:00 p.m.

**Bus 651 Marketing (3)**
E. Faison
Analysis of the 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. MW 5:00-7:00 p.m.

**Bus 796 Business Policy (3)**
N. Kelley
Analysis of comprehensive business problems to provide an integration of learning through the resolution of policy issues and through practice in administrative decision-making. TTh 5:00-7:00 p.m.

**Fin 734 Investment Analysis and Management (3)**
M. Hicks
Techniques of securities, theory of investment and investment decisions, applications to portfolio planning for institutional and individual investors. MW 5:00-7:00 p.m.
PIR 763 Personnel Administration (3)  Staff
Analysis and critical evaluation of those issues, policies, and trends in personnel administration.
MW 7:15-9:15 p.m.

RE 773 Advanced Real Estate (3)  B. Hass
Application of business principles to real property resources; finance and investment, legal environment, concepts of value.
TTh 5:00-7:00 p.m.

CHEMISTRY (Chem)

114 General Chemistry (3)  H. Zeitlin
Fundamental laws, principles, methods. Pre: 113. (Continuation of 113)
Daily 8:45-10:00
Labs 1-2 MW 10:10-11:00
Labs 3-4 TTh 10:10-11:00

116 General Chemistry Laboratory (1)  Staff
Experiments illustrating fundamental principles of chemistry. Pre: 115, credit or registration in 114.
Laboratory TTh 1:00-5:00

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)  Staff
(2 sections)
Gravimetric and volumetric analysis. Pre: credit or registration in 113.
Laboratory (1) Daily 8:00-11:30  (2) Daily 1:30-5:00

243 Organic Chemistry (3)  G. Stacy
Carbon compounds. Topics include molecular structure, stereochemistry, nuclear magnetic resonance, reactions and methods of preparation of principal classes or organic compounds. Pre: 114, 116 or 117, 118.
Daily 8:45-10:00

245 Organic Chemistry Laboratory (1)  Staff
Laboratory MWF 1:00-5:00

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

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

Drama and Theatre (Drama)

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

281 Beginning Modern Dance (3)  F. Ludin
Introduction to basic technical skills and creative processes.
Daily 10:10-11:25

283 Beginning Ballet (3)  K. Mullin
Introduction to the vocabulary of movement of classical ballet.
Daily 8:45-10:00

299 Theatre Practice (3)  M. Boyd
Supervised work in one or two areas: stagecraft, lighting, costuming, make-up. Term paper required.
Daily 2:00-5:00

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

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

383 Intermediate Ballet (3)  B. Jones
Training in standard ballet combinations. Pre: 283-284 or consent of instructor.
Daily 11:35-12:50

465 Oriental Drama and Theatre: China and Japan (3)  D. Yang
Principle form of drama in China and Japan and manner of production in the theatre. Pre: consent of instructor.
Daily 10:10-11:25

481 Advanced Modern Dance (3)  B. Jones
Emphasis upon performance of complete dances. Pre: 381-382 or consent of instructor.
Daily 1:10-2:25
### EAST ASIAN LANGUAGES

**General (EALA)**

- **200(1) Directed Intermediate Language Study: Chinese (3) Staff**
  - Directed intermediate study of an East Asian language, including regularly offered languages in special cases and languages not regularly offered if demand warrants and staff available. May be repeated for credit. Pre: consent of department chairman.
  - Daily 1:10-2:25 plus laboratory

- **200(2) Directed Intermediate Language Study: Japanese (3) Staff**
  - Directed intermediate study of an East Asian language, including regularly offered languages in special cases and languages not regularly offered if demand warrants and staff available. May be repeated for credit. Pre: consent of department chairman.
  - Daily 1:10-2:25 plus laboratory

- **200(3) Directed Intermediate Language Study: Korean (3) Staff**
  - Directed intermediate study of an East Asian language, including regularly offered languages in special cases and languages not regularly offered if demand warrants and staff available. May be repeated for credit. Pre: consent of department chairman.
  - Daily 1:10-2:25 plus laboratory

**Chinese (Chinese)**

- **101 Elementary Chinese (3) Staff**
  - Development of listening, speaking, reading, and writing. Structural points introduced inductively.
  - Daily 1 (1) 9:10-11:25 plus laboratory
  - (2) 9:10-11:25 plus laboratory

- **105 Special Elementary Chinese (3) Staff**
  - Rapid introduction to spoken and written standard Chinese for students who already have some knowledge of the writing system (including students who have background in Cantonese, Hakka, Japanese, etc.) Content of Chinese 101-102 covered.
  - Daily 9:10-11:25 plus laboratory

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

**Japanese (Japanese)**

- **101 Elementary Japanese (3) Staff**
  - Development of listening, speaking, reading, and writing. Structural points introduced inductively. Language lab practice required daily.
  - Daily 1 (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

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

### EAST ASIAN LITERATURE

**Chinese (ChLit)**

- **261 Chinese Literature in Translation—Traditional (3) L. Winters**
  - A survey from earliest times through the Sung Period, with emphasis on poetry and essays.
  - Daily 8:45-10:00

### ECONOMICS (Econ)

- **120 Introduction to Economics (3) H. R. Heller**
  - 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. Credit not given for both this course and 150.
  - Daily 10:10-11:25

- **150 Principles of Economics (3) H. L. Miller**
  - Analysis of functioning of economic systems with emphasis on forces determining levels and changes of national income, employment and price levels. Describes basic economic institutions, e.g. markets, money, banks, labor organizations, corporations. Credit not given for both this course and 120.
  - Daily 10:10-11:25

- **301 Intermediate Economic Theory: Price Theory (3) M. Ghall**
  - 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 Introduction to Statistics (3) R. Parks**
  - Basic elements of statistics, including descriptive statistics, probability and inference, distributions, hypothesis testing, and regression and correlation analysis.
  - Daily 8:45-10:00

- **425 Econometrics I (3) R. Parks**
  - Review of matrix algebra; examination of bi-variate and multi-variate regression analysis, correlation theory; properties of least squares and maximum likelihood estimates under different assumptions; examination of estimation problems likely to be encountered.
  - Pre: 321.
  - 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

- **699 Directed Research (v.) B. Campbell**
  - Pre: consent of department chairman.

- **730 Research Seminar (3) R. Ebel**
  - Review of recent literature and intensive discussion of selected issues emphasizing research approaches in one of these fields: (a) Urban and regional economics. (b) Public finance. (c) Money and finance. (d) Human resource economics. Pre: consent of instructor.
  - TTh 1:00-3:30
EDUCATION

Curriculum and Instruction (Ed CI)

Courses numbered from 312 through 399 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 8:45-10:00

312(10) Foundations in Curriculum and Instruction: Secondary Education (3) F. Brown
Study of objectives and organization of school's curriculum; discussion of principles and practices: roles of teacher in school. Daily 7:45-8:35

319 Children's Literature (2) Staff. Y. Uyehara
Acquaintance with wide range of children's books: criteria for judging literature on basis of needs and interests. Pre: 312 or concurrent registration. Daily (1) 7:45-8:35 (2) 9:10-10:00 (Uyehara)

320 Language Arts, Elementary (2) Y. Uyehara, P. Nash
Modern approach to teaching of language arts—reading, oral, written expression. Pre: 312 or concurrent registration. Daily (1) 7:45-8:35 (Uyehara) (2) 10:10-11:00 (Nash)

321 Reading, Elementary (2) M. Gillespie
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. Pre: 312 or concurrent registration. Daily (1) 10:10-11:00 (Gillespie) (2) 11:35-12:25 (Gillespie)

322 Social Studies, Elementary (2) L. Cornell
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 (1) 11:35-12:25 (Cornell) (2) 1:35-2:25 (Cornell)

323 Science, Elementary (2) J. Cunningham
Science education in elementary school; methods and materials; laboratory activities selected from new science curricula. Pre: 312 or concurrent registration. Daily (1) 7:30-9:00 (MTTh) (Cunningham) 1 hr/wk independent study lab (arr.) (2) 7:30-9:00 (MWF) (Cunningham) 1 hr/wk independent study lab (arr.)

324 Mathematics, Elementary (2) R. Welch, M. Pang
(2 sections)

365 Practicum in Curriculum Development:

Science (v) F. Pottenger
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. May be repeated for credit. Pre-registration necessary for FAST trainees. Daily 8:00-2:30

366 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. May be repeated for credit. Daily 8:45-10:00

367 Practicum in Curriculum Development:

Asian Studies (3) J. Harpstrite
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. May be repeated for credit. Daily 7:20-8:35
595 Aerospace Education Workshop (4)  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 15.
MTW 8:50-11:40, Th 8:50-3:20 (Kaimuki High School)
June 13-July 13

597 Teacher Development (3)  Staff
(2 sections)
Designed for improvement of instruction through study of definitions related to teaching competence, using criterion-referenced measurements, training in observation skills, and study of related research in teacher development and teaching competence. Pre: consent of instructor.
Daily (1) 1:10-2:25
(2) 2:35-3:50

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 8:45-10:00

620 Teaching Reading in the Elementary School (3)  M. Austin
Daily 11:35-12:50

621 Modern Language Arts Program, Elementary (3)  P. Nash
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 7:20-8:35

622 Elementary School Curriculum (3)  A. Inn
Theoretical foundations of curriculum development; curriculum research; critical examination of current practices in curriculum development for elementary school. Pre: 312 or equivalent; teaching experience.
Daily 11:35-12:50

623 Elementary Science Curriculum (3)  J. Cunningham
Daily 10:10-11:25

624 Elementary Mathematics Curriculum (3)  N. Whitman
Analysis of research relating to teaching and learning arithmetic, apply research findings to classroom procedures. Appraisal of recent curricular trends and critical examination of assumptions underlying proposed changes. Pre: 324 and teaching experience.
Daily 10:10-11:25

626 Art in Elementary Education (3)  A. Becker, A. Pickens
(2 sections)
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.
Daily (1) 7:20-9:00 (Pickens)
(2) 10:10-11:25 (Becker)

635 Junior High School Curriculum (3)  D. Noda
Programs for intermediate school; relationship of teachers, administrators, parents; curriculum problems; evaluation. Pre: teaching experience.
Daily 10:10-11:25

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

646 Reading Difficulties (3)  K. Yamamoto, Staff
(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) 11:35-12:50 (Staff)

699 Directed Reading or Research (v.)  M. Reddin

722 Seminar in Elementary Curriculum Foundations (3)  A. Inn, R. Welch
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 (Inn)
(2) 10:10-11:25 (Welch)
Industrial Education (Ed IE)

300 Industrial Crafts—Jewelry and Lapidary Processes (2) M. Weaver
Design, processes and materials of jewelry making; lapidary processes and materials for polishing semi-precious gemstones; black coral polishing and mounting.
Daily (1) 12:35-2:25 (Weaver) (2) 2:45-4:35 (Weaver)

401 Problems in Industrial Education (1) L. Zane
Problem arranged for specialization in several technical areas. May be repeated for total of 5 credits (To be taken concurrently with 497.)
W 6:30-9:20 p.m.

497 Cooperative Vocational Experiences (v.) L. Zane
A planned work-experience program for special areas of vocational-technical education. Learning experience includes an acceptable type of wage earning employment. A minimum of six 40-hour weeks or 240 work hours are required for each 3 semester hours of credit. May be repeated. Pre: consent of instructor. (To be taken concurrently with 401.)
Hrs. arr.

Educational Administration (Ed EA)

601 Introduction to Educational Administration (3) R. Dunwell
Develops view of administrative process and organization elements in context of systems of personal, social and physical variables. Emphasis on role and functions of school administrator.
Daily 8:45-10:00

605 Collective Negotiation in Education (3) J. Thompson
Principles and practices of collective negotiations as they apply to public and private education. Special emphasis is placed on negotiation practices under the Hawaii Public Employee Collective Bargaining Act S.B. #1696-70, CD-1.
Daily 11:35-12:50

610 School-Community Relations (3) C. Araki
Application of principles, techniques, policies, organization of school-community information program.
Daily 7:20-8:35

623 Administrative Problems in Physical Education (3) E. Chui
Current problems and recent trends in conduct of physical education programs in educational settings. For administrators, teachers, graduate students in physical education and related fields. Pre: HPE 423 or equivalent; consent of instructor. (Identical with HPE 623.)
Daily 8:45-10:00

733 Seminar in Curriculum, Secondary (3) R. Martin, D. Noda, M. Anello
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) 8:45-10:00 (Noda) (3) 8:45-10:00 (community college) (Anello)

751 Community College Curriculum (3) O. Lefforge
Essential role of community college in a democratic society examined. Techniques in identifying community needs; curriculum planned 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

670 School Supervision (3) C. Araki
Principles of supervision and development of supervisory programs.
Daily 10:10-11:25

699 Directed Reading or Research (v.) R. Dunwell

754 Community College Curriculum (3) O. Lefforge
Essential role of community college in a democratic society is examined. Techniques in identifying community needs; curriculum planned for academic and occupational education; evaluation of total program. Pre: teaching experience and consent of instructor. (Identical with Ed CI 754.)
Daily 10:10-11:25

Industrial Education (Ed IE)

700 Industrial Crafts—Jewelry and Lapidary Processes (2) M. Weaver
Design, processes and materials of jewelry making; lapidary processes and materials for polishing semi-precious gemstones; black coral polishing and mounting.
Daily (1) 12:35-2:25 (Weaver) (2) 2:45-4:35 (Weaver)

Educational Communications (Ed EC)

599, its equivalent, or consent of department chairman is prerequisite to all 600 and 700 level courses; additional prerequisites as noted.

314 Audio-Visual Techniques (2) R. Baird
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.
Daily 1:35-2:25

404 Survey of Educational Communications Media (3) R. Sparks
Overview of research which supports selected media channels, survey of selected communication channels characteristics and development of understanding and practices related to media systems structures as applied to a chosen learning problem.
Daily 1:10-2:25
599 Workshop in Educational Media (1)  R. Baird, R. Sparks
(2 sections)
Concentrated study and practical experience in utilization of edu-
cational media through 8 hours of lecture-demonstrations and 8
laboratory hours for each 1-credit sequence. May be repeated
through workshops covering different media up to maximum of
3 credits.
Daily (1) 7:45-8:35 (Baird)  (2) 11:35-12:25 (Sparks)

620 Production of Instructional Materials (3)  R. Baird
Preparation of two- and three-dimensional instructional materials,
charts, graphs, learning displays, television graphics, overhead
transparencies, audio recordings, and use of Ektographic visual
maker.
Daily 8:45-10:00

625 Educational Still Photography (3)  R. Sparks
Theory and practice involved in planning and producing educational
film strips, slides, prints. Emphasis on meeting curriculum goals
through systematic development of strip film as learning material
for presentations. Pre: basic knowledge of photography and con-
sent of instructor.
Daily 10:10-11:25

670 Educational Communications Systems (3)  W. Wittich
Review of educational communications principles and their prac-
tical 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 in-
dustrial goals; investigation of new teaching strategies; systems
analysis, self-instructional and interrelated techniques. Pre: 620
or equivalent.
Daily 10:10-11:25

699 Directed Reading or Research (v.)  G. Kucera

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,
(3 sections)  G. Frazier, R. Potter
Contemporary educational theory and practice as related to major
historical, philosophical, and social factors in American culture.
Daily (1) 7:20- 8:35 (Anderson)  (3) 10:10-11:25 (Potter)
(2) 8:45-10:00 (Frazier)

409 Culturally and Economically Disadvantaged Pupil (3)  M. Ezer,
(3 sections)  G. Frazier, R. Fruehling
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. (Identical with
SpEd 409)
Daily (1)  8:45-10:00 (Ezer)  (3) 11:35-12:50 (Frazier)
(2) 10:10-11:25 (Fruehling)

445 Educational Sociology (3)  N. Joseph, Staff
(2 sections)
Examination of development of theoretical and practical aspects of
social structure and their relationship to education. Pre: 310 or
3 hrs. of sociology.
Daily (1) 7:20-8:35 (Joseph)  (2) 8:45-10:00

480 Anthropological Applications (3)  R. Fruehling
Education as means of transmitting culture. Socialization in non-
literate societies; universal aspects of process. Cross-cultural edu-
cation. (Identical with Anth 480)
Daily 8:45-10:00

497 Politics of Everyday Life in the Schools (3)  M. Dixon
Consideration of different ways in which one can consider schools
and effects of these "ways" on how we act with particular attention
on how "problems" are identified and solutions posed.
Daily 10:10-11:25

650 Historical Foundations of Western Education (3)  S. Jaeckel
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. Jaeckel, A. Keppel
(2 sections)
Introduction to history of American educational thought from 17th
century to present.
Daily (1) 8:45-10:00 (Keppel)
(2) 10:10-11:25 (Jaeckel)

652 History of Education in Hawaii (3)  R. Stueber
From Cook's discovery to present. Social and intellectual in-
fluences 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)  T. Brameld
Philosophical considerations essential to theories of education.
Pre: student teaching.
Daily 10:10-11:25

664 Seminar in Problems in Education (2)  A. Keppel
For Plan B M.Ed. candidates. Topics determined by Plan B projects.
A required seminar for completing the M.Ed. in Plan B.
Daily 1:35-2:25

671 Comparative Education: Asia (3)  R. Anderson
Educational institutions, practices and problems in Asian countries,
viewed against backdrop of their traditional cultures.
Daily 10:10-11:25

683 Social Foundations of Education (3)  R. Potter
Impact on education of major social trends and forces operating in
American society; social change and education.
Daily 8:45-10:00

699 Directed Reading or Research (v.)  R. Stueber

763(1) Seminar in Educational Theory: Educational Issues (2)
Focus on educational issues. Pre: 660 and consent of instructor. May
be repeated.
Daily 11:35-12:25

Educational Psychology (Ed EP)

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

311 Psychological Foundations (3)  D. Sherrill, J. M. O'Malley,
(4 sections)  O. Hansen
Principles of learning and individual differences; relationships of
these factors to classroom experience. Pre: Psy 100.
Daily (1) 7:20- 8:35 (Sherrill)  (3) 10:10-11:25 (Hansen)
(2) 8:45-10:00 (O'Malley)  (4) 11:35-12:50 (Hansen)
FIRST TERM Education

416 Tests and Measurements (3) P. Dunn-Rankin, H. Ayabe
(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 (Dunn-Rankin) (2) 10:10-11:25 (Ayabe)

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 8:45-10:00

601 Guidance in the School (3) Staff
Basic principles of guidance; consideration of techniques, organization, materials, resources.
Daily 10:10-11:25

602 Elementary School Guidance (3) D. Collins
Principles, techniques, organization of guidance services in elementary school.
Daily 10:10-11:25

604 Occupational Information in Guidance (3) Staff
Occupational research and survey techniques; trends, sources of materials, use of occupational information in vocational guidance. Pre: 601.
Daily 10:10-11:25

605 Problems of School Adjustment (3) Staff
Principles of behavior affecting human relationships in school, with emphasis upon application to actual situations.
Daily 8:45-10:00

606 Student Personnel Services in Higher Education (3) N. Westcott
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 8:45-10:00

609 Tests and Inventories in Guidance (3) Staff
Daily 8:45-10:00

610 Counseling: 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 10:10-11:25

614 Theory and Assessment of Intelligence (3) J. Shapiro
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 or school psychology, counseling and guidance or education of exceptional children.
Daily 8:45-10:00

629 Educational Statistics (3) D. Blaine
Statistical inference including applications of parametric and non-parametric methods to educational problems. Pre: 429 or its equivalent.
Daily 10:10-11:25
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Time (Days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>672</td>
<td>Advanced Educational Psychology: Learning (3)</td>
<td>M. Vitale</td>
<td>3</td>
<td>Daily 10:10-11:25</td>
</tr>
<tr>
<td>673</td>
<td>Advanced Educational Psychology: Psycho-Social Development (3)</td>
<td>H. Ayabe</td>
<td>3</td>
<td>Daily 8:45-10:00</td>
</tr>
<tr>
<td>702</td>
<td>Group Guidance (3)</td>
<td>J. Shapiro</td>
<td>3</td>
<td>Daily 10:10-11:25</td>
</tr>
<tr>
<td>710</td>
<td>Counseling: Group Theory and Practice (3)</td>
<td>D. Fullmer</td>
<td>3</td>
<td>Daily 8:45-10:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>103</td>
<td>Swimming: Beginning (1)</td>
<td>G. W. Mock, G. Selchi</td>
<td>1</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Mock)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10:10-11:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Seichi)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11:10-12:00</td>
</tr>
<tr>
<td>107</td>
<td>Tennis: Beginning (1)</td>
<td>D. Thompson, J. Asato</td>
<td>1</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(4 sections)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Mock)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11:00-12:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Seichi)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11:10-12:00</td>
</tr>
<tr>
<td>110</td>
<td>Golf: Beginning (1)</td>
<td>G. Krahenbuhl, E. Chui</td>
<td>1</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(3 sections)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Mock)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10:10-11:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Chui)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10:00-11:00</td>
</tr>
<tr>
<td>111</td>
<td>Golf: Advanced (1)</td>
<td>G. Selchi</td>
<td>1</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(2 sections)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Mock)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10:10-11:00</td>
</tr>
<tr>
<td>124</td>
<td>Dances of Hawaii (1)</td>
<td>L. Kaina, E. Bekeart, H. Stellmacher</td>
<td>1</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(7 sections)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Kaina)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10:10-11:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Bekeart)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10:10-11:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Chui)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10:10-11:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FOR MEN</td>
</tr>
<tr>
<td>135</td>
<td>Volleyball (1)</td>
<td>S. Martin</td>
<td>1</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(4 sections)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Mock)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10:10-11:00</td>
</tr>
<tr>
<td>161</td>
<td>Aikido (1)</td>
<td>G. Sakamoto</td>
<td>1</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(2 sections)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Tagomori)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11:10-12:00</td>
</tr>
<tr>
<td>162</td>
<td>Karate (1)</td>
<td>H. Tagomori</td>
<td>1</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(2 sections)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Tagomori)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11:10-12:00</td>
</tr>
<tr>
<td>163</td>
<td>T'ai Chi Ch'uan (1)</td>
<td>T. Y. Pang</td>
<td>1</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(advanced form of Kung Fu)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>195</td>
<td>Modern Health: Personal and Community (2)</td>
<td>H. Tominaga</td>
<td>2</td>
<td>1st Term</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Health & Physical Education (HPE)

Medical Clearance Requirement: For HPE courses numbered 101-197, 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 16. For the procedure to obtain this clearance, see page 24.

Health & Physical Education (HPE)

Medical Clearance Requirement: For HPE courses numbered 101-197, 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 16. For the procedure to obtain this clearance, see page 24.

Courses numbered 201 and above are not open to lower division students (except for pre-education majors with the consent of department chairman).

203 Introduction to Physical Education (2) | D. Thompson |
Aims and objectives of physical education; basic concepts of body in movement; physical education as academic discipline; relationship to related fields such as health education, recreation, athletics. Pre: consent of instructor; 201 or 202 desirable. Daily 10:10-11:00

233 Physical Education: Elementary (3) | S. Hanson |
Content and methods for physical education in elementary school, emphasizing selection, planning, teaching, evaluation of movement exploration and physical activities. Daily 8:45-10:00

302 School's Role in Community Health (2) | H. Tominaga |
Functional interrelationships between school and other community health organizations in solving community health problems. Pre: consent of instructor, 201 or 202 desirable. Daily 10:10-11:00

436 Methods and Materials of Aquatics and Life Saving (2) | G.W. Mock |
Methods of teaching swimming; theory and techniques of life saving and water safety leading to American Red Cross certification (W.S.I.). Pre: 104 or consent of instructor. Daily 8:20-10:00

454 Physiology in Physical Education (3) | R. Tracy |
Emphasis on physiological responses to exercise and physical training as related to strength, muscular endurance, and circulatory-respiratory endurance. Primarily for physical education majors, but open to others with consent of instructor. Pre: 1 year of biology or equivalent. Daily 8:45-10:00

476 Motor Learning and Performance (3) | S. Martin |
Basic considerations in kinesthesia, motor ability, fatigue, developmental factors, practice, motivation in relation to motor learning and human performance. Pre: 463, Ed EP 311, or consent of instructor. Daily 8:45-10:00
623 Administrative Problems in Physical Education (3) E. Chui
Current problems and recent trends in conduct of physical education programs in educational settings. For administrators, teachers, graduate students in physical education and related fields. Pre: 423 or equivalent; consent of instructor. (Identical with Ed EA 623.) Daily 8:45-10:00

634 Adapted Physical Education (3) J. Little
Factors essential to practice of adapted physical education: disabilities, problems and needs of physically handicapped pupils with emphasis on accepted procedures for meeting these. Pre: 453, 454, and 463, or consent of instructor.
Daily 10:10-11:25

699 Directed Reading or Research (v.) E. Chui

Special Education (SpEd)
200 Mental Retardation and Mental Health I. Trail
Work-Study Program (6)
Study, observation, and supervised field experience of emotionally and socially maladjusted, mentally ill, and mentally retarded in community and institutional settings.
Daily Hrs. arr.

404 Introduction to Special Education (3) J. Apffel
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 8:45-10:00

405 Curriculum and Instruction in Special Education (3) A. Blumberg
Study of current issues and patterns of organization of school curriculum, discussion of principles, practices and objectives in special education; role of special education teacher. Pre: 404 and consent of instructor.
Daily 8:45-10:00

408 Methods and Materials in Teaching the Trainable Mentally Retarded (3) J. Apffel
Methods and techniques of instruction employed in application of skill development to learning in content areas: analysis and evaluation of instructional materials with consideration of programmed basal, linguistic, audio-visual resources and other types of materials; demonstrations of techniques of instruction: criteria for selection and application of instructional materials: review of findings with implications for classroom teacher of trainable mentally retarded. Pre: 406 and consent of instructor.
Daily 7:20-8:35

409 Culturally and Economically Disadvantaged Pupils (3) G. Fargo
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. (Identical with Ed EF 409.)
Daily 7:20-8:35

410 Methods and Materials in Teaching the Child with Learning and Behavior Disorders (3) D. McIntosh
Materials, methods, and techniques applicable to instruction of children with learning and behavior disorders. Emphasis given to criterion selection of materials, sequencing and programming of materials, evaluation of programs, pertinent related research in field. Pre: 406 and consent of instructor.
Daily 7:20-8:35

414 Education of Gifted Children (3) D. McIntosh
Characteristics and educational provisions for gifted children. Particular attention to psychological aspects of creativity.
Daily 8:45-10:00

485 Behavior Modification of Handicapped Children (3) G. Fargo
Application of principles of behavior modification in treatment and classroom instruction of exceptional children. Pre: 404, 405, 410 or consent of instructor.
Daily 8:45-10:00

611 Advanced Curriculum and Instruction in Special Education (3) A. Blumberg
Examination of issues, trends, and principles in curriculum development and consideration of multiple approaches to teaching methodology in special education. Pre: 405 and student teaching.
Daily 10:10-11:25

ENGINEERING

Civil Engineering (CE)
270 Applied Mechanics I (3) E. Cheng
Equilibrium of particles, rigid bodies, frames and machines; vectors, centroids, friction and moments of inertia. Pre: Phys 170.
Daily 10:10-11:25

699 Directed Research (v.) Staff

Electrical Engineering (EE)
311 Circuit Theory (3) Staff
Daily 9:00-10:00 June 14-August 17

699 Directed Reading or Research (v.) Staff
Pre: graduate standing, consent of instructor.

800 Thesis Research (v.) Staff
Pre: candidacy for M.S. or Ph.D. in Electrical Engineering.

General Engineering (GE)
61 Graphical Communication (1) E. Hotchkiss
(2 sections)
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.
MWF (1) 8:45-10:00 (Hotchkiss) (2) 10:10-11:25 (Hotchkiss)

121 The World of Engineering (2) D. Boyd
Discussion of and outside speakers from the various fields of engineering. The design process, ideation, criteria, optimization, modeling, etc. Basic engineering analysis techniques. Pre: Math 134 or equivalent.
Daily 7:45-8:35

251 Computer Programming in PL/1 (2) J. Augustus
PL/1 programming language for applied math and physical science. Basic numerical methods, program planning, writing, debugging, and running. Intended for students who have not taken 107. Pre: Math 134 or equivalent.
Daily 9:10-10:00

253 Computer Programming in FORTRAN (2) J. Augustus
FORTRAN programming language for applied math and physical science. Basic numerical methods, program planning, writing, debugging, and running. Intended for students who have not taken 107. Pre: Math 134 or equivalent.
Daily 7:45-8:35
Mechanical Engineering (ME)

311 Thermodynamics (3)  Staff
Daily 10:10-11:25

371 Mechanics of Solids (3)  Staff
Analysis of deformable bodies. Definition of stress and infinitesimal strain. Linear elasticity. Stress, strain and deformation of simple bodies subjected to torsion, bending, and shear force.
Daily 8:45-10:00

499 Project (v.)  R.M. Fand
Investigation of advanced problems in mechanical engineering design or development. Pre: senior standing.

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

800 Thesis (v.)

Ocean Engineering (OE)

601 Ocean Engineering Field Laboratory (3)  L.H. Seidl
Design, construction and evaluation of an ocean engineering system. Field experience supplemented with appropriate theory. Pre: consent of department.
Hrs. arr.

699 Directed Research (v.)  C.L. Bretschneider

800 Thesis Research (v.)  Staff

ENGLISH (Eng)

100 Expository Writing (3)  J. DeMoss, W. Denham, J. Derrick, S. Drinkard, T. Hunter, M. Mucklo, Staff
N. Breen, S. Sumida
(9 sections)
A study of the principal steps in effective exposition—disccovering, interpreting, and evaluating data through observations 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 (DeMoss)  (6) 10:10-11:25 (Drinkard)
(2) 7:20-8:35 (Denham)  (7) 11:35-12:50 (Derrick)
(3) 8:45-10:00 (Breen)  (8) 11:35-12:50 (Sumida)
(4) 8:45-10:00 (Hunter)  (9) 11:35-12:50 (Staff)
(5) 10:10-11:25 (Mucklo)

251 Major Works of British and American Literature (3)  N. Breen, W. Frierson
(4 sections)  R. McKeegan, J. Lowers, Staff
R. McKean, J. Lowers
From the Middle Ages to 1800; an introductory course for sophomores.
Daily (1) 7:20-8:35 (Breen)  (3) 10:10-11:25 (Lowers)
(2) 8:45-10:00 (McKeegan)  (4) 11:35-12:50 (Staff)

252 Major Works of British and American Literature (3)  M. McKeegan, L. Seitz
From 1800 to the present; an introductory course for sophomores.
Daily (1) 7:20-8:35 (McKeegan)  (2) 8:45-10:00 (Seitz)

253 World Literature: To the Renaissance (3)  W. Denham, P. Frantz
(2 sections)
Major works of classical, Oriental, European and English literature.
Daily (1) 10:10-11:25 (Denham)  (2) 11:35-12:50 (Frantz)

254 World Literature: 1600 to the Present (3)  W. Frierson, Staff
(2 sections)
Major works of classical, Oriental, European, American and English literature.
Daily (1) 7:20-8:35 (Staff)  (2) 11:35-12:50 (Frierson)
### 255 Types of Literature (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. Drinkard, W. Huntaberry, (6 sections)</td>
<td>K. Merz, S. Mockridge, M. Mucklo, Staff</td>
</tr>
</tbody>
</table>

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 (Merz)
- Daily (2) 7:20-8:35 (Drinkard)
- Daily (3) 8:45-10:00 (Staff)

### 256 Types of Literature (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Hunter, M. Murray, (4 sections)</td>
<td>J. Werner, Staff</td>
</tr>
</tbody>
</table>

Practical criticism in the major genres of European and American literature. Drama, biography, poetry.

- Daily (1) 7:20-8:35 (Hunter)
- Daily (2) 8:45-10:00 (Werner)
- Daily (3) 10:10-11:25 (Staff)

### 309 Written Communication (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Harris, V. Kennedy, (3 sections)</td>
<td>Staff</td>
</tr>
</tbody>
</table>

Practice in informative, analytical, and persuasive writing. Open only to students in Business Administration and Home Economics.

- Daily (1) 7:20-8:35 (Kennedy)
- Daily (2) 8:45-10:00 (Harris)
- Daily (3) 10:10-11:25 (Staff)

### 313 Introduction to Imaginative Writing (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. Damon, (2 sections)</td>
<td>P. Thompson</td>
</tr>
</tbody>
</table>

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)
- Daily (2) 10:10-11:25 (Thompson)

### 315 Advanced Expository Writing (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Macmillan, L. Wright (2 sections)</td>
<td></td>
</tr>
</tbody>
</table>

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 (Wright)
- Daily (2) 10:10-11:25 (Macmillan)

### 320 Introduction to Language (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Y. Pak</td>
<td></td>
</tr>
</tbody>
</table>

Examination of modern concepts of structure and use of language, with special reference to the English language.

- Daily 11:35-12:50

### 331 Introduction to Poetry (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Stempel</td>
<td></td>
</tr>
</tbody>
</table>

Written and oral analysis of imagery, sound, language, form and structure of poems, leading to increased awareness of nature of poetry.

- Daily 10:10-11:25

### 335 Backgrounds of World Literature (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Summersgill</td>
<td></td>
</tr>
</tbody>
</table>

Most important sources of European literary themes and allusions, including King James Bible and western European myth and legend.

- Daily 10:10-11:25

### 399 Directed Reading (v.)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Maltby</td>
<td></td>
</tr>
</tbody>
</table>

Individual reading. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in English. Pre: consent of instructor and department chairman. Hrs. arr.

### 401 Modern English Grammar (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Y. Pak</td>
<td></td>
</tr>
</tbody>
</table>

Syntax of modern English examined within framework of recent linguistic scholarship.

- Daily 10:10-11:25

### 421 English Drama to 1642 (3)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Summersgill</td>
<td></td>
</tr>
</tbody>
</table>

Origins of English drama; medieval drama and theatre; contemporaries and successors of Shakespeare.

- Daily 8:45-10:00

---

**Courses with Section Numbers:**

- 445 Shakespeare (3)
  - Shakespeare's plays from the beginning to Hamlet.
  - Daily 7:20-8:35

- 446 Shakespeare (3)
  - Shakespeare's plays from Hamlet through the last plays.
  - Daily 8:45-10:00

- 457 18th-Century English Literature (3)
  - Poetry, prose (exclusive of the novel), drama from 1700 to 1740, with emphasis on Pope and Swift.
  - Daily 11:35-12:50

- 464 Victorian Literature (3)
  - Poetry and prose exclusive of the novel from 1870-1914.
  - Daily 8:45-10:00

- 469(1) Studies in British Literature (3)
  - Imitation and Symbolism, Joyce, Woolf and Eliot.
  - Daily 8:45-10:00

- 469(2) Studies in British Literature (3)
  - Staff

  - Studies in Victorian literature.
  - Daily 10:10-11:25

- 472 American Literature (3)
  - Critical study of American literature from 1865-1914.
  - Daily 10:10-11:25

- 473 American Literature (3)
  - Critical study of American literature from 1914 to the present.
  - Daily 11:35-12:50

- 476 20th-Century American Novel (3)
  - A. Edelstein

  - Development of American novel from 1900 to present.
  - Daily 7:20-8:35

- 479 Studies in American Literature (3)
  - L. Edel

  - Thoreau and James.
  - Daily 7:20-8:35

- 480 Literature of the Pacific (3)
  - M. Sinclair

  - The literature of the Pacific Islands and Australasia; narratives of voyages and travels, translations of native folk literature, short stories and novels by such writers as Melville, Stevenson, London, Beke, Nordhoff and Hall.
  - Daily 10:10-11:35

- 484 Modern Dramatic Literature (3)
  - J. Maltby

  - European and American, Pirandello to Pinter, 1920 on.
  - Daily 11:35-12:50

- 487 20th-Century British and American Poetry (3)
  - P. Thompson

  - Study of the classic moderns in 20th-century poetry, such as Yeats, Pound, Eliot, W.C. Williams.
  - Daily 7:20-8:35

- 563 Seminar in Research Methods (3)
  - C. Bouslog

  - Kinds of research, problems of bibliography, fundamentals of thesis writing. Required of all candidates for M.A. degree in English.
  - Daily 8:45-10:00

- 675(1) Literary Genres and Problems (3)
  - G. Anderson

  - Restoration satire.
  - MWF 8:45-10:50

- 675(2) Literary Genres and Problems (3)
  - J. Aubert

  - Structural approaches to modern literature.
  - MWF 10:10-12:15
ENGLISH LANGUAGE INSTITUTE (ELI)

All ELI courses meet M-F, 9 weeks, June 14-August 11.

60 Oral English for Foreign Students (0) Staff
Intensive drill to develop facility in speaking and understanding. Language laboratory work also required. Credit equivalent of 3.
Daily 8:45-10:00 Laboratory Hrs. arr.

61 English Structure for Foreign Students (0) Staff
Intensive drill on recognition and production of English grammatical signals. Credit equivalent of 3.
Daily 7:20-8:35

62 Reading Program for Foreign Students (0) Staff
Instruction and practice in developing improved reading comprehension and speed, and in effective use of textbooks and reference materials. Credit equivalent of 3.
Daily 1:10-2:25

63 Writing Program for Foreign Students (0) Staff
Focus on the similarities and differences between spoken and written English. Practice in taking dictation; and in writing direct address, indirect address, and factual accounts. Credit equivalent of 3.
Daily 11:35-12:50

70 Intermediate Oral English for Foreign Students (0) Staff
(2 sections)
Further practice in spoken fluency and accurate aural comprehension. Language laboratory work required. Credit equivalent of 3.
Daily (1) 9:10-10:00 Laboratory Hrs. arr.
(2) 10:10-11:00

71 Intermediate English Structure for Foreign Students (0) Staff
Further drill in English grammatical patterns. Credit equivalent of 3.
Daily 11:35-12:25

72 Intermediate Reading Program for Foreign Students (0) Staff
(2 sections)
Further work on reading comprehension and speed, techniques of skimming and rapid review. Credit equivalent of 2.
Daily (1) 7:45-8:35
(2) 12:30-1:20

73 Intermediate Writing Program for Foreign Students (0) Staff
(3 sections)
Intensive analysis of common transitional expressions occurring in expository writing. Practice in use of these devices in essays and summaries. Credit equivalent of 2.
Daily (1) 7:45-8:35
(2) 9:10-10:00
(3) 10:10-11:00

ENGLISH AS A SECOND LANGUAGE (ESL)

360 English Language in Hawaii (3) R. Day
Survey of the major historical, descriptive and pedagogical aspects of English in Hawaii, with emphasis on basic problems in such areas as pidgin and creole languages, linguistic change, and language variation. Students will work with actual language data. Pre: one course in English language or linguistics.
Daily 8:45-10:00

425 Linguistics and Reading (3) T. Rodgers
A survey of research related to the reading process and the development of methodology in the teaching of reading. Particular attention given to psycholinguistic investigations of reading and to the comparison of reading in first and second languages. Pre: Eng 320 or equivalent.
Daily 10:10-11:25

699 Directed Reading (v.) R. Crymes

720 Second Language Testing (3) K. Jackson
Analysis and discussion of principles and techniques of the measurement of achievement and proficiency in second language learning. Pre: ESL 610 or consent of instructor.
Daily 1:10-2:25

799 Directed Research (v.) R. Crymes
EUROPEAN LANGUAGES AND LITERATURE

General (EL)

Literature Courses in English

Note: These courses, given in English, do not require knowledge of a foreign language. They do not count toward requirements for any major in this department. They may count toward foreign culture requirement.

304 Roman Literature (3)  A. Burns
Major writers of Ancient Rome in English translation.
Daily 7:20-8:35

331 19th Century Russian Novel (3)  M. Klimenko
Survey of important novelists in English translation, particularly Gogol, Goncharov, Turgenev, Saltykov, Dostoevsky, Tolstoi.
Daily 8:45-10:00

356 Latin American Literature (3)  A. Kleinbergs
Reading and discussion of classic works of Latin American literature in English. Purpose is to provide insight into Latin American culture through its literature.
Daily 10:10-11:25

375 French Literature Since 1800 (3)  E. Jackson
Rapid reading in translation; lectures, discussions and reports.
Daily 11:35-12:50

382 German Expressionism (3)  W. Scherer
Search for the "new man" and the revival of a humanity gone astray through world wars and technological "progress."
Daily 10:10-11:25
French (Fr)

101 Elementary French (4)       A. Benaras, Staff
Intensive course in conversation, grammar, reading, writing. Language lab practice required daily.
Daily (1) 7:45-10:00 plus laboratory
(2) 9:10-11:25 plus laboratory

102 Elementary French (4)       E. Hakanson
Continuation of 101. Language lab practice required daily.
Daily 9:10-11:25 plus laboratory

201 Intermediate French (3)   N. Howard
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)   A. Lerond
Continuation of 201. Language lab practice required daily.
Daily 7:20-8:35 plus laboratory

301 Phonetics and Pronunciation Practice (3) H. Niedzielski
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)     H. Niedzielski
Study of structure of contemporary French as analyzed by descriptive linguists. Pre: 202 or equivalent.
Daily 8:45-10:00

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

312 Advanced Composition (3) Staff
Emphasis on strengthening facility with language through further training in syntax, structure and composition writing. Pre: 202.
Daily 7:20-8:35 plus laboratory

German (Ger)

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

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

106 German for Reading Proficiency (3) R. Seymour
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)     C. Moore
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 201. Language lab practice required daily.
Daily 10:10-11:25 plus laboratory

800 Thesis (v.)                  Staff

Latin (Lat)

101-102 Elementary Latin (6)    R. Bell, Staff
Intensive course in vocabulary and grammar, with reading of simple Latin, equivalent to Latin 101 and 102.
Daily 8:45-11:25

Russian (Rus)

101-102 Elementary Russian (8)  T. Gasinski, M. Klimenti
Intensive course in conversation, grammar, reading, writing, equivalent to Russian 101 and 102. Language lab practice required daily.
Daily 7:45-12:25 plus laboratory

Spanish (Span)

101 Elementary Spanish (4)      S. Mahoe
Intensive beginning course, primarily emphasizing oral practice. Language lab practice required daily.
Daily 7:45-10:00 plus laboratory

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

110 Accelerated Elementary Spanish (3) S. Baciu, Staff
Intensive course equivalent to Spanish 101 and 102. Language lab practice required daily.
Daily 7:45-12:25 plus laboratory

201 Intermediate Spanish (3)    A. Dias
Continuation of oral practice, with increasing emphasis on reading and written composition. Pre: 102 or equivalent. Language lab practice required daily.
Daily 8:45-10:00 plus laboratory

202 Intermediate Spanish (3)    J. Kratky
Continuation of 201. Language lab practice required daily.
Daily 7:20-8:35 plus laboratory

210 Accelerated Intermediate Spanish (6) Y. Montes, J. Roldan
Intensive course equivalent to Spanish 201 and 202. Language lab practice required daily.
Daily 8:45-11:25 plus laboratory

330 Phonetics and Pronunciation Practice (2) R. Hadlich
Analysis of Spanish phonological system, in contrast with English. Practice designed to perfect student's own pronunciation. Pre: 202 or equivalent. Language lab practice required daily.
Daily 10:10-11:25 plus laboratory

695 Seminar in Hispanic Literature (3) M. Montes
Study of a period, author, genre or region. Pre: consent of instructor. (May be repeated.)
Daily 11:35-12:50

GENETICS (Genet)

699 Directed Reading (v.)        G. Ashton
800 Thesis Research (v.)         Staff
GEOGRAPHY (Geog)

101 Elements of Physical Geography (3) P. Witayarut
Survey of man's natural environment: distribution and interrelationships of climates, vegetation, soils, landforms. Laboratory problems in map interpretation and environmental analysis.
Daily 7:45-8:35
Laboratory (1) MW 1:10-4:00 (2) TTh 1:10-4:00

102 World Regional Geography (3) L. Masterson
Geography of world's major cultural regions: emphasis on geographic aspects of contemporary economic, social, political conditions.
Daily 8:45-10:00

151 Geography and Contemporary Society (3) A. Sommarstrom
Elements of economic geography and resource management, population and urban geography; application to current problems of developed and underdeveloped worlds.
Daily 11:35-12:50

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

326 Conservation and Resource Management (3) A. Sommarstrom
Daily 8:45-10:00

328 Perspectives on Environment and Culture (3) B. Murton
Concepts and methods of cultural geography. Emphasis on understanding adaptations and adjustments to environment in past and present in different societies. Examination of man-environment decision processes and models.
Daily 11:35-12:50

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

353 Geography of China (3) L. Masterson
Regional geographic exposition of historical, ethnic, political, economic character of China. Analysis of physical and resource base for agriculture and industry.
Daily 11:35-12:50

356 Geography of Southeast Asia (3) P. Witayarut
Southeast Asia in world economy. Human and physical resources basis and return achieved by various methods of land utilization. National economies of continental and insular Southeast Asia, problems and prospects of modernization.
Daily 10:10-11:25

368 Geography of Hawaii (3) G. Piianaia
Regional, physical, cultural geography. Detailed study of people and resources.
Daily 8:45-10:00

399 Directed Reading (v.) R. Fuchs
Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in geography.
Hrs. arr.

700(1) Fortran Programming for Social Sciences (3) R. Enrickson
Study and discussion of significant topics and problems.
Hrs. arr.

GEOLOGY AND GEOPHYSICS (GG)

200 Geology of the Hawaiian Islands (4) A. Abbott
Survey of Hawaiian volcanism, rock types, development of land forms, ground water, engineering materials: field trips.
MTWTh 8:45-10:00
Friday 9:00-3:00 (Field Trip)

614 Advanced Field Study (v.) R. Moberly
Field projects in geological sciences.
Hrs. arr.

660 Seminar in Solid Earth Geophysics (v.) A. Furumoto,
(a) Tectonics and crustal deformation. (b) Isostasy. (c) Properties of earth matter. (d) Physics of interior of earth. (e) Statistical interpretation. (f) Tsunamis. (g) Geomagnetism. Pre: consent of instructor.
Hrs. arr.

680 Seminar in Geodesy (v.) S. Laurila
(a) Navigation and precise positioning includes topics in geodetic astronomy and coordinate conversions. (b) Advanced topics in potential theory and physical geodesy. (c) Gravity measurement and reduction techniques, includes absolute and relative gravity measurements, pendulum and gravimeter methods, and methods of analysis of observational data. (d) Special topics in satellite geodesy. May be repeated for credit. Pre: consent of instructor.
Hrs. arr.

799 Directed Research (v.) S. Laurila
800 Thesis Research (v.) Staff

HISTORY (Hist)

151 World Civilization (3) J.J. Connors
(2 sections)
A 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 (1) 10:10-11:25 plus lab (2) 11:35-12:50 plus lab
Labs 1-2 M 1:00-2:15 Lab 17 M 1:00-2:15
Labs 5-8 T 1:00-2:15 Lab 18 T 1:00-2:15
Labs 9-12 W 1:00-2:15 Lab 19 W 1:00-2:15
Labs 13-16 Th 1:00-2:15 Lab 20 Th 1:00-2:15

152 World Civilization (3) J.J. Connors
Continuation of the history of world civilization from the seventeenth century to the present day.
Daily 7:20-8:35 plus lab
Labs 1-2 M 1:00-2:15 Labs 5-6 W 1:00-2:15
Labs 3-4 T 1:00-2:15 Labs 7-8 Th 1:00-2:15
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>241</td>
<td>Civilizations of Asia (3)</td>
<td>B.E. McKnight</td>
<td>Historical survey of major civilizations of Asia from earliest times to 1500, including East Asia, Southeast Asia, and South Asia. (Identical with Asian Studies 241.) Daily 7:20-8:35</td>
</tr>
<tr>
<td>242</td>
<td>Civilizations of Asia (3)</td>
<td>B.E. McKnight</td>
<td>Historical survey of major civilizations of Asia from 1500 to present, including East Asia, Southeast Asia, and South Asia. (Identical with Asian Studies 242.) Daily 10:10-11:25</td>
</tr>
<tr>
<td>281</td>
<td>Introduction to American History (3)</td>
<td>R.L. Rapson</td>
<td>An interpretive survey of United States history from the earliest settlements to 1877. Daily 10:10-11:25</td>
</tr>
<tr>
<td>407(6)</td>
<td>National and Regional History in Southeast Asia (3)</td>
<td>T.B. Lam</td>
<td>Detailed treatment of particular periods and countries in Southeast Asia. Modern Vietnam, Laos, and Cambodia. Daily 8:45-10:00</td>
</tr>
<tr>
<td>409</td>
<td>History of China (3)</td>
<td>Staff</td>
<td>Course of Chinese civilization from earliest times to 1644. Daily 7:20-8:35</td>
</tr>
<tr>
<td>410</td>
<td>History of China (3)</td>
<td>Staff</td>
<td>Course of Chinese civilization from 1644 to present. Daily 10:10-11:25</td>
</tr>
<tr>
<td>425</td>
<td>The United States in the Pacific (3)</td>
<td>D.D. Johnson</td>
<td>Growth of economic and political interests and policies in Pacific area. Interchangeable credit: Asian, Pacific or American. Daily 8:45-10:00</td>
</tr>
<tr>
<td>439</td>
<td>Europe in the 19th Century (3)</td>
<td>B.J. Winchester</td>
<td>Major political, social, economic and intellectual trends in evolution of Europe from Napoleon to end of World War I. Daily 7:20-8:35</td>
</tr>
<tr>
<td>440</td>
<td>Europe Since Versailles (3)</td>
<td>J. Rodes</td>
<td>Problems of contemporary Europe and their historical background. Daily 7:20-8:35</td>
</tr>
<tr>
<td>444</td>
<td>History of Germany (3)</td>
<td>J. Rodes</td>
<td>Major political, social, economic and intellectual trends in evolution of Germany from the Bismarckian and Wilhelminian period through post-1945. Daily 8:45-10:00</td>
</tr>
<tr>
<td>445</td>
<td>History of France (3)</td>
<td>R.E. Cubberly</td>
<td>Major political, social, economic, and intellectual trends in evolution of France from end of Middle Ages to the Revolution. Daily 8:45-10:00</td>
</tr>
<tr>
<td>446</td>
<td>History of France (3)</td>
<td>R.E. Cubberly</td>
<td>Major political, social, economic, and intellectual trends in evolution of France from the Revolution to the Fifth Republic. Daily 11:35-12:50</td>
</tr>
<tr>
<td>482</td>
<td>American Thought and Culture (3)</td>
<td>R.L. Rapson</td>
<td>Advanced course in American social customs, institutions, intellectual pursuits. Daily 11:35-12:50</td>
</tr>
<tr>
<td>494</td>
<td>Senior Honor Thesis (2)</td>
<td>J. Linn</td>
<td>Preparation of research paper under individual faculty supervision. Required for graduation with honors. Hrs. arr.</td>
</tr>
<tr>
<td>496</td>
<td>Senior Tutorial (4)</td>
<td>G.R. Nunn</td>
<td>Analysis of sources and evaluation of methods of historical writing. Research in field of special interest. Required for majors, except those in honors program. May be repeated for credit. TTh 1:00-4:00</td>
</tr>
<tr>
<td>499</td>
<td>Directed Reading (v.)</td>
<td>H. Margulies</td>
<td>Individual projects in various fields. Limited to seniors with 2.7 grade-point average or 3.0 in history. Pre: consent of instructor. Hrs. arr.</td>
</tr>
<tr>
<td>564</td>
<td>Seminar in the History of Mainland Southeast Asia (3)</td>
<td>W.F. Vella</td>
<td>Studies in histories of peoples and states of Burma, Thailand, Cambodia, Laos and Vietnam. MTh 9:00-12:00</td>
</tr>
<tr>
<td>611(3)</td>
<td>Seminar in Chinese History (3)</td>
<td>S. Uhalley, Jr.</td>
<td>Problems and reading in political, social, cultural history of China. MTh 9:00-12:00</td>
</tr>
<tr>
<td>725</td>
<td>Contemporary China Seminar (3)</td>
<td>S. Uhalley, Jr.</td>
<td>Topical studies of contemporary China including attention to significant historical antecedents. (Identical with Asian Studies 601.) MTh 1:00-4:00</td>
</tr>
<tr>
<td>799</td>
<td>Directed Research (v.)</td>
<td>H. Margulies</td>
<td>Individual research topics in special fields. Pre: consent of instructor. Hrs. arr.</td>
</tr>
</tbody>
</table>

**HONORS PROGRAM**

**Honors Courses (Hon)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>493</td>
<td>Senior Honor Thesis (2)</td>
<td>J. Linn</td>
<td>Preparation of research paper under individual faculty supervision. Required for graduation with honors. Hrs. arr.</td>
</tr>
<tr>
<td>494</td>
<td>Senior Honor Thesis (2)</td>
<td>J. Linn</td>
<td>Preparation of research paper under individual faculty supervision. Required for graduation with honors. Hrs. arr.</td>
</tr>
</tbody>
</table>

**Special Studies (SS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>311</td>
<td>Independent Study Tutorial (v.)</td>
<td>R. Clopton</td>
<td>Pre-arranged independent study, under the tutorial system, of selected topics not necessarily covered in standard course work. Comprising a full-session load, course is limited to sophomores and above not on probation. Pre: permission of Liberal Studies Coordinator and appropriate faculty adviser. Hrs. arr.</td>
</tr>
<tr>
<td>312</td>
<td>Independent Study Tutorial (v.)</td>
<td>R. Clopton</td>
<td>Pre-arranged independent study, under the tutorial system, of selected topics not necessarily covered in standard course work. Comprising a full-session load, course is limited to sophomores and above not on probation. Pre: permission of Liberal Studies Coordinator and appropriate faculty adviser. Hrs. arr.</td>
</tr>
</tbody>
</table>
HUMAN RESOURCES DEVELOPMENT

Fashion Design, Textiles and Merchandising (FDM)

111 Esthetics of Clothing (3)  J. Sankey
Factors involved in clothing selection. Principles of line, color, design for individual figures. Consumer buying of wardrobes.
Daily 8:45-10:00

125 Fashion Analysis (3)  M. Troxell
Dynamics of fashion; environmental factors influencing fashion demand; analysis of trends. History, structure and terminology of the fashion industry.
Daily 10:10-11:25

216 Fashion Design and Sketching (3)  S. Aikman
Development of apparel design through sketching the fashion figure.
Pre: 111.
Daily 8:45-10:00

329 Field Experience (2)  M. Troxell
Minimum of eight weeks' full time supervised internship in the fashion industry; comprehensive terminal report required. Pre: consent of instructor.

499 Directed Reading (v.)  O. Herrick
699 Directed Reading (v.)  O. Herrick

Food Service Administration (FSA)

499 Directed Research (v.)  Staff
699 Directed Research (v.)  Staff

Human Development (HD)

231 Introduction to Human Development (3)  C. Meredith,
(2 sections)
Principles of development from conception to puberty. Emphasis on impact of family interaction; practical and social implications of existing knowledge from behavioral sciences. Observation of situations involving children.
Daily (1) 8:45-10:00 (Meredith)   (2) 10:10-11:25 (Staff)

232 Introduction to Human Development (3)  S. Schwitters
Principles of development from puberty to death. Focus on the interrelation of physical, cognitive, and social-emotional aspects of the individual. Observations of situations involving older adults.
Daily 8:45-10:00

Food and Nutritional Sciences (FN)

480 Nutrition Education for School Teachers (3)  B. Standal, F. Young
Course presents: (1) The basic concepts of nutrition and the functions of nutrients in body processes. (2) The nutritional requirements during the life cycle: pregnancy and lactation, childhood, adolescence, and adulthood. (3) Special problems in nutrition of adolescents. Designed primarily for teachers, but also valuable for workers in health related fields.
Daily 8:45-10:00

Nutrition (Nutr)

499 Directed Research (v.)  Staff
699 Directed Research (v.)  Staff
800 Thesis (v.)  Staff
**INDO-PACIFIC LANGUAGES**

**General (IP)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 Directed Reading (v.)</td>
<td>Staff</td>
<td>Directed reading of advanced texts written in a South Asian, Southeast Asian or Pacific language. Pre: consent of instructor.</td>
<td></td>
</tr>
</tbody>
</table>

**Bengali (Beng)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>112 Intensive Intermediate Bengali (6)</td>
<td>R. Baumer, S. Nasreen</td>
<td>Intensive course equivalent to Intermediate Bengali in academic year. Includes all four skills: listening, speaking, reading and writing. The 9-week course meets for a total of 150 hours with additional daily laboratory work required. Pre: 111 or equivalent.</td>
<td>Daily 7:45-11:25 plus laboratory June 13-August 11</td>
</tr>
<tr>
<td>303 Intensive Third Bengali (6)</td>
<td>R. Baumer, S. Nasreen</td>
<td>Intensive course equivalent to Third Level Bengali in academic year. Sequential to the intermediate course; emphasis upon vocabulary building and mastery of sentence structures through reading and conversation. Pre: 112 or equivalent.</td>
<td>Daily 1:35-3:25 June 13-August 11</td>
</tr>
</tbody>
</table>

**Burmese (Burm)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111 Intensive Elementary Burmese (6)</td>
<td>D. Roop, S. Lim</td>
<td>Intensive course equivalent to Elementary Burmese in academic year. Includes all four skills: listening, speaking, reading and writing. The 9-week course meets for a total of 150 hours with additional daily laboratory work required.</td>
<td>Daily 8:45-12:50 plus laboratory June 13-August 11</td>
</tr>
<tr>
<td>112 Intensive Intermediate Burmese (6)</td>
<td>D. Roop, S. Lim</td>
<td>Intensive course equivalent to Intermediate Burmese in academic year. Includes all four skills: listening, speaking, reading and writing. The 9-week course meets for a total of 150 hours with additional daily laboratory work required. Pre: 111 or equivalent.</td>
<td>Daily 8:45-12:50 plus laboratory June 13-August 11</td>
</tr>
<tr>
<td>112 Intensive Intermediate Lao (6)</td>
<td>A. Crisfield, V. Soulatha</td>
<td>Intensive course equivalent to Intermediate Lao in academic year. Includes all four skills: listening, speaking, reading and writing. The 9-week course meets for a total of 150 hours with additional daily laboratory work required. Pre: 111 or equivalent.</td>
<td>Daily 1:10-4:45 plus laboratory June 13-August 11</td>
</tr>
</tbody>
</table>

**Hawaiian (Haw)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101 Elementary Hawaiian (3)</td>
<td>A. Anthony</td>
<td>Development of listening, speaking, reading, writing. Structural points introduced inductively. Daily laboratory work.</td>
<td>Daily 8:45-10:00 plus laboratory</td>
</tr>
<tr>
<td>201 Intermediate Hawaiian (4)</td>
<td>J. Ward</td>
<td>Continuation of 102. Reading of traditional texts. Daily laboratory work. Pre: 102 or equivalent.</td>
<td>Daily 8:45-10:00 plus laboratory</td>
</tr>
</tbody>
</table>

**Hindi (Hindi)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>112 Intensive Intermediate Hindi (6)</td>
<td>J. Baumer</td>
<td>Intensive course equivalent to Intermediate Hindi in academic year. Includes all four skills: listening, speaking, reading and writing. The 6-week course meets for a total of 150 hours with additional daily laboratory work required. Pre: 111 or equivalent.</td>
<td>Daily 7:20-10:00; 12:00-2:25 plus laboratory</td>
</tr>
<tr>
<td>112 Intensive Intermediate Thai (6)</td>
<td>T. Gething</td>
<td>Intensive course equivalent to Intermediate Thai in academic year. Includes all four skills: listening, speaking, reading and writing. The 9-week course meets for a total of 150 hours with additional daily laboratory work required. Pre: 111 or equivalent.</td>
<td>Daily 1:10-4:45 plus laboratory June 13-August 11</td>
</tr>
</tbody>
</table>

**Indonesian (Ind)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111 Intensive Elementary Indonesian (6)</td>
<td>G. DeHeer</td>
<td>Intensive course equivalent to Elementary Indonesian in academic year. Includes all four skills: listening, speaking, reading and writing. The 6-week course meets for a total of 150 hours with additional daily laboratory work required.</td>
<td>Daily 7:20-10:00; 12:00-2:25 plus laboratory</td>
</tr>
<tr>
<td>303 Intensive Third Indonesian (6)</td>
<td>S. Dardjowidjojo</td>
<td>Intensive course equivalent to Third Level Indonesian in academic year. Sequential to the intermediate course; emphasis upon vocabulary building and mastery of sentence structures through reading and conversation. Pre: 112 or equivalent.</td>
<td>Daily 8:45-11:25 plus laboratory</td>
</tr>
</tbody>
</table>

**Lao (Lao)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111 Intensive Elementary Lao (6)</td>
<td>A. Crisfield, V. Soulatha</td>
<td>Intensive course equivalent to Elementary Lao in academic year. Includes all four skills: listening, speaking, reading and writing. The 9-week course meets for a total of 150 hours with additional daily laboratory work required.</td>
<td>Daily 7:45-11:25 plus laboratory June 13-August 11</td>
</tr>
</tbody>
</table>

**Nepali (Nep)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>112 Intensive Intermediate Nepali (6)</td>
<td>R. Baumer, M. Dhakwa</td>
<td>Intensive course equivalent to Intermediate Nepali in academic year. Includes all four skills: listening, speaking, reading and writing. The 9-week course meets for a total of 150 hours with additional daily laboratory work required. Pre: 111 or equivalent.</td>
<td>Daily 9:10-12:25 plus laboratory June 13-August 11</td>
</tr>
</tbody>
</table>

**Tagalog (Tag)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111 Intensive Elementary Tagalog (6)</td>
<td>T. Ramos</td>
<td>Intensive course equivalent to Elementary Tagalog in academic year. Includes all four skills: listening, speaking, reading and writing. The 6-week course meets for a total of 150 hours with additional daily laboratory work required.</td>
<td>Daily 7:20-10:00; 12:00-2:25 plus laboratory</td>
</tr>
</tbody>
</table>

**Thai (Thai)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111 Intensive Elementary Thai (6)</td>
<td>T. Punyodyana</td>
<td>Intensive course equivalent to Elementary Thai in academic year. Includes all four skills: listening, speaking, reading and writing. The 9-week course meets for a total of 150 hours with additional daily laboratory work required.</td>
<td>Daily 7:45-11:25 plus laboratory June 13-August 11</td>
</tr>
<tr>
<td>112 Intensive Intermediate Thai (6)</td>
<td>T. Gething</td>
<td>Intensive course equivalent to Intermediate Thai in academic year. Includes all four skills: listening, speaking, reading and writing. The 9-week course meets for a total of 150 hours with additional daily laboratory work required. Pre: 111 or equivalent.</td>
<td>Daily 1:10-4:45 plus laboratory June 13-August 11</td>
</tr>
</tbody>
</table>
Informations Sciences (ISc)

466 Computer Organization and Programming Techniques (4) L. Wear

Organization and machine language of typical computers. Machine language programming techniques. Introduction to operating systems. Introduction to data structures, sorting, retrieving data from files of information. Pre: knowledge of some general programming language, such as FORTRAN, PL/I, or COBOL.

Daily 10:00-11:25 plus laboratory

Library Studies (LS)

601 Bibliography and Reference Sources (3) F. O'Halloran

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 7:30-10:00

615 Building Library Collections (3) Y. Suzuki

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. Pre: 601

Daily 1:00-3:30

642 Audio Visual Services in Libraries (3) E. Schofield

Films, filmstrips, recordings, and related media as they apply to various types of education programs in libraries. Sources, evaluations, organization, and use of audio-visual materials. Materials are viewed or judged by the participants.

Daily 1:00-3:30

650 Administration of Libraries (3) F. Mohrhardt

The organization and human factors which make for effective library service. Covers governmental relations, policy making, structure of jobs and departments, communication and co-ordination, staffing, financing, and housing. Case studies are used for instructional purposes.

Daily 10:00-12:45

670 Literature Searching and Documentation (3) J. Abreka

The special intellectual and mechanical tools for storage, searching, reproduction, and transmission of information. Deals with the audience and materials of documentation. Of particular value to service in special research and large public and university libraries.

Daily 10:00-12:45

683 Services for Children and Young People (3) E. Schofield

Organization and provision of services from preschool through young adult years, considering both school and public libraries. Attention is given to preparation of lessons in use of books and libraries.

Daily 7:30-10:00

693 Special Topics in Librarianship (Archives) (3) M. Reiger

Course content will reflect interests of visiting and permanent faculty and will concentrate on one major topic of current interest such as comparative librarianship, international librarianship, library service to disadvantage, or library and information networks.

Daily 10:15-12:45

696 Field Seminar (3) I. Harris

Hrs. arr.

705 Asia Reference Sources (3) R. Nunn

Bibliographical and reference tools and services in Asian countries with special attention to source materials in other than Western languages.

Daily 10:15-12:45
### LINGUISTICS (Ling)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>102 Introduction to the Study of Language (3)</td>
<td>P.G. Chapin</td>
</tr>
<tr>
<td>470 Introduction to the Study of Children's Speech (3)</td>
<td>M.L. Forman</td>
</tr>
<tr>
<td>622 Grammar (3)</td>
<td>G. Lee</td>
</tr>
<tr>
<td>699 Directed Research (v.)</td>
<td>B. Bender</td>
</tr>
<tr>
<td>800 Thesis Research (v.)</td>
<td></td>
</tr>
</tbody>
</table>

### MATHEMATICS (Math)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Survey of Mathematics (3)</td>
<td>C.H. Brase, A. Shukla</td>
</tr>
<tr>
<td>201 Finite Mathematics (3)</td>
<td>B.B. Wells</td>
</tr>
<tr>
<td>232 Ordinary Differential Equations (3)</td>
<td>M.C.Y. Lee, B.B. Wells</td>
</tr>
<tr>
<td>371 Elementary Probability Theory (3)</td>
<td>I.E. Monroe</td>
</tr>
<tr>
<td>402 Partial Differential Equations (3)</td>
<td>S.K. Kranzler</td>
</tr>
</tbody>
</table>

### Ten Weeks, June 13-August 17

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>134 Pre-Calculus Mathematics (4)</td>
<td>E.H. Mookini, K. Rogers, W.T. Stout</td>
</tr>
<tr>
<td>205 Calculus I (3)</td>
<td>R.H. Clark, H.M. Hilden, J.K.M. Siu</td>
</tr>
<tr>
<td>206 Calculus II (3)</td>
<td>E.A. Bertram, F.T. Iha</td>
</tr>
<tr>
<td>231 Multi-Variable Calculus (3)</td>
<td>T.S. McDermott</td>
</tr>
<tr>
<td>311 Introduction to Linear Algebra (3)</td>
<td>J. Williamson</td>
</tr>
<tr>
<td>431 Advanced Calculus (3)</td>
<td>F.T. Iha</td>
</tr>
<tr>
<td>442 Vector Analysis (3)</td>
<td>R.A. Hirschfeld</td>
</tr>
</tbody>
</table>

### MEDICAL TECHNOLOGY (MT)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>466 Internship (4)</td>
<td>P. Taylor</td>
</tr>
</tbody>
</table>
METEOROLOGY (Met)
101 Climate, Weather and the Atmosphere (4) C. Adams, P. Daniels, R. Taylor
An introduction to physical science for the non-science major, using the atmosphere as the medium to show physical processes of the world around us. Encompasses earth-sun relationships, ocean-atmosphere interactions, satellite observations, some comparisons with atmospheres of other planets, optical and electrical properties, local climate of Hawaii.
MTWTh 10:10-11:25   F 8:45-11:25 (Lab)
799 Directed Research (v.) C.S. Ramage
Hrs. arr.

MICROBIOLOGY (Micro)
130 General Bacteriology (3) L. Berger
Fundamentals of bacteriology with emphasis on microorganisms as they affect people and their possessions. Discussion groups optional. Not open to those who have credit in 351.
Daily 10:10-11:25
351 Procaryote Biology (4) P. Baumann
Study of bacteria: their anatomy, chemistry, physiology and development; their roles in natural processes. Pre: Biol 250; Chem 241-242 or 244; or consent of instructor; Math 205 desirable.
Daily 8:45-10:00   Laboratory: MWF 10:10-12:40
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 (v.) A. Benedict
Selected problems in microbiology. Pre: consent of instructor.

795 Special Topics/Introduction to Tumor Virology (3) K. Takemoto
The course will deal with the fundamental aspects of animal tumor viruses and their relationship to normal and malignant cells. It will consist of lectures, discussions and some laboratory exercises and demonstrations. A background in virology, immunology and biochemistry is highly desirable or consent of instructor required.
Daily 8:45-10:00

800 Thesis Research (v.) Staff

MUSIC (Mus)
140 Recreational Music (2) R. Lum
Elementary music skills including instruction on ukulele. For recreation majors but open to others.
Daily 10:10-11:00

160 Introduction to Music Literature (3) S. Fuller
Elements, styles and forms of music, from listener's point of view.
Daily 8:45-10:00

170 Music in World Culture (3) R. Trimiillos
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
### First Term

#### Music

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>180</td>
<td>Fundamentals of Western Music</td>
<td>L. Rowell</td>
<td>3</td>
<td>Daily 8:45-10:00</td>
</tr>
<tr>
<td>190</td>
<td>Dance in World Cultures</td>
<td>J. Van Zile</td>
<td>3</td>
<td>Daily 8:45-10:00</td>
</tr>
<tr>
<td>266</td>
<td>History of Western Music After 1750</td>
<td>E. Spielman</td>
<td>3</td>
<td>Daily 8:45-10:00</td>
</tr>
<tr>
<td>370</td>
<td>Music in Modern America</td>
<td>R. Trimillos</td>
<td>3</td>
<td>Daily 11:35-12:50</td>
</tr>
<tr>
<td>401</td>
<td>Contemporary Ensemble</td>
<td>J. Van der Slie</td>
<td>1</td>
<td>Hrs. arr.</td>
</tr>
<tr>
<td>457</td>
<td>Asian and Pacific Music in Education</td>
<td>E. Tom, H. Susilo</td>
<td>2</td>
<td>Daily 7:20-9:00—June 14-30</td>
</tr>
<tr>
<td>464</td>
<td>Twentieth Century Music</td>
<td>E. Spielman</td>
<td>2</td>
<td>Daily 10:10-11:00</td>
</tr>
<tr>
<td>477</td>
<td>Music Cultures: Indonesia</td>
<td>H. Susilo</td>
<td>2</td>
<td>Daily 11:35-12:25</td>
</tr>
<tr>
<td>491</td>
<td>Movement Notation</td>
<td>J. Van Zile</td>
<td>2</td>
<td>Daily 10:10-11:50—June 14-30</td>
</tr>
<tr>
<td>492</td>
<td>Movement Notation</td>
<td>J. Van Zile</td>
<td>2</td>
<td>Daily 10:10-11:50—July 3-21</td>
</tr>
<tr>
<td>557</td>
<td>Institute on Polynesian Music in Music Education</td>
<td>E. Tom</td>
<td>3</td>
<td>Daily 7:20-9:50—July 5-21</td>
</tr>
<tr>
<td>580</td>
<td>Theory Review</td>
<td>L. Rowell</td>
<td>3</td>
<td>Daily 7:20-8:35</td>
</tr>
<tr>
<td>626</td>
<td>Advanced Conducting: Instrumental</td>
<td>R. Lum</td>
<td>2</td>
<td>Daily 11:35-12:25</td>
</tr>
</tbody>
</table>

#### Oceanography (Ocean)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Science of the Sea</td>
<td>S. Margolis</td>
<td>3</td>
<td>MTThF 10:10-11:25</td>
</tr>
<tr>
<td>699</td>
<td>Directed Research</td>
<td>K. Chave</td>
<td>(v.)</td>
<td>Pre: consent of instructor.</td>
</tr>
<tr>
<td>800</td>
<td>Thesis Research</td>
<td>Staff</td>
<td>(v.)</td>
<td>Pre: consent of adviser.</td>
</tr>
</tbody>
</table>

#### Pacific Islands Program (PIP)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>699</td>
<td>Directed Research</td>
<td>N. Meijler</td>
<td>(v.)</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>Thesis</td>
<td>B. Lum</td>
<td>(v.)</td>
<td></td>
</tr>
</tbody>
</table>

#### Pharmacology (Pharm)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>699</td>
<td>Directed Research</td>
<td>B. Lum</td>
<td>(v.)</td>
<td></td>
</tr>
</tbody>
</table>

---

Applied Music

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>115</td>
<td>First-Level Secondary Piano</td>
<td>E. Shipwright</td>
<td>1</td>
<td>Daily 9:10-10:00</td>
</tr>
<tr>
<td>125</td>
<td>Elementary Piano Class</td>
<td>E. Shipwright</td>
<td>1</td>
<td>Daily 10:00-11:00 (Shipwright) (2) 11:35-12:25 (Shipwright)</td>
</tr>
<tr>
<td>127(71)</td>
<td>Class Koto</td>
<td>K. Mikami</td>
<td>1</td>
<td>Course fee $25. Daily 9:10-10:00</td>
</tr>
<tr>
<td>131, 231, 431</td>
<td>Individual Instruction</td>
<td></td>
<td>1</td>
<td>For non-music or music majors. May be repeated. Course fee $55. Hrs. arr.</td>
</tr>
</tbody>
</table>

---

Oceanography (Ocean)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Science of the Sea</td>
<td>S. Margolis</td>
<td>3</td>
<td>MTThF 10:10-11:25</td>
</tr>
</tbody>
</table>

---

Music

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>180</td>
<td>Fundamentals of Western Music</td>
<td>L. Rowell</td>
<td>3</td>
<td>Daily 8:45-10:00</td>
</tr>
<tr>
<td>190</td>
<td>Dance in World Cultures</td>
<td>J. Van Zile</td>
<td>3</td>
<td>Daily 8:45-10:00</td>
</tr>
<tr>
<td>266</td>
<td>History of Western Music After 1750</td>
<td>E. Spielman</td>
<td>3</td>
<td>Daily 8:45-10:00</td>
</tr>
<tr>
<td>370</td>
<td>Music in Modern America</td>
<td>R. Trimillos</td>
<td>3</td>
<td>Daily 11:35-12:50</td>
</tr>
<tr>
<td>401</td>
<td>Contemporary Ensemble</td>
<td>J. Van der Slie</td>
<td>1</td>
<td>Hrs. arr.</td>
</tr>
<tr>
<td>457</td>
<td>Asian and Pacific Music in Education</td>
<td>E. Tom, H. Susilo</td>
<td>2</td>
<td>Daily 7:20-9:00—June 14-30</td>
</tr>
<tr>
<td>464</td>
<td>Twentieth Century Music</td>
<td>E. Spielman</td>
<td>2</td>
<td>Daily 10:10-11:00</td>
</tr>
<tr>
<td>477</td>
<td>Music Cultures: Indonesia</td>
<td>H. Susilo</td>
<td>2</td>
<td>Daily 11:35-12:25</td>
</tr>
<tr>
<td>491</td>
<td>Movement Notation</td>
<td>J. Van Zile</td>
<td>2</td>
<td>Daily 10:10-11:50—June 14-30</td>
</tr>
<tr>
<td>492</td>
<td>Movement Notation</td>
<td>J. Van Zile</td>
<td>2</td>
<td>Daily 10:10-11:50—July 3-21</td>
</tr>
<tr>
<td>557</td>
<td>Institute on Polynesian Music in Music Education</td>
<td>E. Tom</td>
<td>3</td>
<td>Daily 7:20-9:50—July 5-21</td>
</tr>
<tr>
<td>580</td>
<td>Theory Review</td>
<td>L. Rowell</td>
<td>3</td>
<td>Daily 7:20-8:35</td>
</tr>
<tr>
<td>626</td>
<td>Advanced Conducting: Instrumental</td>
<td>R. Lum</td>
<td>2</td>
<td>Daily 11:35-12:25</td>
</tr>
</tbody>
</table>
PHILOSOPHY (Phil)

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

200 History of Philosophy I (3)  R.N. Assali
Western philosophy from era of great Greek thinkers to Renaissance. Daily 10:10-11:25

401 Social Philosophy (3)  R.N. Assali
Traditional problems of justice, freedom, equality and authority and their contemporary analyses. Daily 11:35-12:50

417 Theory of Knowledge (3)  R.M. Moore
Examination of major historical and contemporary approaches to the theory of knowledge. Problems to be considered will include: truth and error, scepticism, the problem of induction, the possibility of a priori knowledge, the analytic-synthetic distinction, meaning and verification, perception, and other minds. Daily 8:45-10:00

420 Philosophy of Art (3)  R.M. Moore
Study of art from points of view of creation, appreciation, criticism. Particular attention to painting, sculpture, music, poetry. Daily 11:35-12:50

425 Philosophy in Literature (3)  H.E. McCarthy

450 Indian Philosophy (3)  K.N. Upadhyaya
Philosophical systems and movements: Vedas, Upanishads, six systems of Hinduism, Charvaka, Jainism, Buddhism. Daily 8:45-10:00

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. MWF 1:00-2:15

200 Experimental Photography (2)  F. Haar
Photography for advanced students. Camera as a tool of expression, photoestheticism, perception, selection, composition; objective and subjective factors in forming image; experimental photography with lines, forms, tones, volumes, textures, and colors; experiments with light, without camera, photogram, specializations, photojournalism; illustration; advertising, industrial, scientific, touristic photography; portraiture. Darkroom laboratory. TTh 1:00-3:00

PHYSICS (Phys)

100 Survey of Physics (3)  P. Sogo
Introduction to physics; basic concepts. Not open to those with previous college physics or experience beyond Math 134. Daily 8:45-10:00

101 Survey of Physics Laboratory (1)  D. Nelson
Simple experiments in basic concepts of physics. Pre: credit or concurrent enrollment in 100 or 102. TF 11:35-2:25

151 College Physics (3)  C. Hayes
Fundamental laws, principles, methods. Pre: credit or registration in Math 134. 151 is prerequisite to 152. Daily 7:20-8:35

153 College Physics Laboratory I (1)  C. Inouye
(2 sections)
Pre: credit or registration in 151. Offered only as credit/no credit. (1) MTh 8:45-11:35 (Inouye) (2) WF 8:45-11:35 (Inouye)
PHYSIOLOGY (Phys)

699 Directed Research (v.)

800 Thesis Research (v.)

57

POLITICAL SCIENCE (Pol Sc)

110 (1) Introduction to Politics (3)  D. Bwy

One can slice the stuff of politics in many ways. The dichotomy most often tried is the one to be used here. We shall take a look at the shaping and sharing of power from the split level views of (1) political theologians and (2) political experimentalists. The trip through this normative and empirical bramblebush should cover some ancient sages (e.g. Plato, Hobbes, Machiavelli, Marx) as well as some not-so-ancient ones (e.g. Lasswill, Dahl, Lipset, Neustadt). Daily 7:20-8:35

110(2) Introduction to Political Science (3)  J. Wilson

Introduction to political problems, systems, ideologies, processes. Daily 8:45-10:00

300 Introduction to Political Thought (3)  J. Wilson

A discussion of the tradition of political philosophy, with special attention to contemporary existentialist thought. Emphasis will be given to the work of Sartre and Merleau-Ponty. Daily 10:10-11:25

305(1) Political Socialization (3)  D. Friedman

This course will be directed towards an understanding of the socialization of children into the political culture. We will discuss the cognitive-developmental framework for understanding socialization. Much of the reading in this area will be in the form of handouts—many of the work of Lawrence Kohlberg. Later we will study the effect of the American School System on children and contrasting methods of child socialization as typified in the Soviet Union and Israel. Daily 1:10-2:25

330 Psychology and Politics (3)  I. Rohter

Introduction to psychological aspects of politics. First we shall briefly examine personality and socialization influences upon individual political activism (both Left and Right) and revolutionary political movements (China, Algeria). Then we shall consider some political uses made of various psychological models of man. Daily 11:35-12:50

350 Political Development (3)  M. Haas

How can a political system best promote economic and social development? A variety of academic theories and national development strategies have been applied over the last few decades, notably among the countries of Asia. The course will review and assess alternative approaches, applying each to Hawaii as well. Daily 10:10-11:25

365(1) Japanese Politics (3)  Y. Kuroda

This is a course in Japanese politics for those who are interested in Japan as well as for those who are interested in comparative politics in general. We conceive of this course as a mutual experiment in discovering a new approach to the teaching of Japanese politics to both area and discipline oriented students. The major objective of the course is to introduce the student to Japanese politics in such a way that he begins to see things he did not see before about Japanese politics. (Identical with 645). Daily 8:45-10:00

365(2) Political Futuristics (3)  J. Dator

An introduction to futuristics—the study, forecasting, design, and realization of alternate socio-political values, environments, and organisms for the immediate, intermediate, and distant future. Primarily an undergraduate class, but graduate students wishing to study futuristics should take this course first, and follow up with the graduate course “Advanced Futuristics” when it is offered later. Daily 7:20-8:35

325(1) Communist China's Foreign Behavior (3)  S-W. Rhee

Several theories or approaches (e.g. national interest theory, field theory, balance of power theory, geopolitics, etc.) will be discussed in relationship to some aspects of China's foreign behavior. Thus, a student can evaluate the merits and weak points of various analytical schemes currently employed in the international relations discipline. Daily 1:10-2:25

325(2) International Politics of Southeast Asia (3)  W. Levi

A discussion of the sources and nature of Southeast Asian international politics. The emphasis will be on the regional states: their foreign policies, interactions, and relations with the major powers. (Identical with 631) Daily 10:10-11:25

380 Thesis (v.)

Hrs. arr.

380 Thesis (v.)

Hrs. arr.
### Psychology Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>345(2)</td>
<td>Latin American Politics (3)</td>
<td>D. Bwy</td>
<td>The first part of this course will represent the country-by-country treatment of those politics students wish to know most about. It wouldn't be surprising, therefore, if countries such as Cuba, Mexico, and Chile are uppermost in student's minds. The second portion of the course will be given over to analyzing the conventional “wisdom(s)”-e.g., “revolution”, and “political development”-that appear to dominate the literature. These too will be selected on the basis of student interest. Daily 8:45-10:00</td>
</tr>
<tr>
<td>345(3)</td>
<td>Political Psychology of Japanese Americans (3)</td>
<td>Y. Kuroda</td>
<td>The course is divided into two parts. First we will briefly examine the role of Japanese-Americans in American society by reading such books as Roger Daniel's <em>Concentration Camps, U.S.A.</em> (1971) and <em>The Ethnic Factor in American Politics</em> (1970) by Hawkins and Lorinskas. Second, the major focus of the course will be to study the values, attitudes, and behavioral patterns of the Japanese-Americans in Honolulu today. Daily 10:10-11:25</td>
</tr>
<tr>
<td>350</td>
<td>Public Administration (3)</td>
<td>H. Friedman</td>
<td>Bureaucracy and anti-bureaucracy are counterpoint themes in this introduction to the study of organization theory as it applies to public agencies today and administrative trends for the future. Daily 11:35-12:50</td>
</tr>
<tr>
<td>630</td>
<td>International Relations (3)</td>
<td>M. Haas</td>
<td>International conflict during the past two decades has been most intense and violent among the countries of Asia. During the past decade, therefore, there has been a rapid increase in the number and scope of regional international organizations in Asia. The purpose of this course is to trace these developments with particular emphasis on the role of national development strategies. Daily 2:35-3:50</td>
</tr>
<tr>
<td>631</td>
<td>International Politics of Southeast Asia (3)</td>
<td>W. Levi</td>
<td>A discussion of the sources and nature of Southeast Asian international politics. The emphasis will be on the regional states: their foreign policies, interactions, and relations with the major powers. (Identical with 325(2)) Daily 10:10-11:25</td>
</tr>
<tr>
<td>645</td>
<td>Japanese Politics (3)</td>
<td>Y. Kuroda</td>
<td>This is a course in Japanese politics for those who are interested in Japan as well as for those who are interested in comparative politics in general. We conceive of this course as a mutual experiment in discovering a new approach to the teaching of Japanese politics to both area and discipline oriented students. The major objective of the course is to introduce the subject in such a way that one begins to see things he did not see before about Japanese politics. (Identical with 345(1)). Daily 8:45-10:00</td>
</tr>
</tbody>
</table>

### PSYCHOLOGY (Psy)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Survey of Psychology (3)</td>
<td>K. Minke, Staff</td>
<td>Principles of human behavior, individual differences, motivation, emotion, perception, learning. Daily (1) 8:45-10:00 (Minke) (2) 11:35-12:50 (Staff)</td>
</tr>
<tr>
<td>113</td>
<td>Statistical Techniques (3)</td>
<td>J. McFarland, M. Murray</td>
<td>Frequency distributions; graphic methods, central tendency; variability; correlations; reliability; tests of significance. Pre: two years of high school algebra or equivalent. Daily (1) 8:45-10:00 (McFarland) (2) 10:10-11:25 (Murray)</td>
</tr>
<tr>
<td>214</td>
<td>Learning and Motivation (3)</td>
<td>D. Grant</td>
<td>Major conditions influencing learning and forgetting; the role of practice, reward, motivation, drive and emotion, theoretical interpretations of learning and motivation. Pre: 112. Daily 8:45-10:00</td>
</tr>
<tr>
<td>215</td>
<td>Sensory Processes (3)</td>
<td>R. Cole</td>
<td>Psychophysics; vision, audition, taste, smell. Pre: 100, 112. Daily 7:20-8:35</td>
</tr>
<tr>
<td>320</td>
<td>Developmental Psychology (3)</td>
<td>V. Pecjak, M. Hoffman</td>
<td>Emotional, mental, physical, social development from infancy to adulthood; interests and abilities at different age levels. Pre: 100. Daily (1) 7:20-8:35 (Hoffman) (2) 10:10-11:25 (Pecjak)</td>
</tr>
</tbody>
</table>
### FIRST TERM

**Public Health**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Days</th>
<th>Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>321</td>
<td>Psychology of Personality (3)</td>
<td>A. Marsella</td>
<td>Scientific study of personality, its meaning, assessment, development, relation to cultural-social determinants. Pre: 100.</td>
<td>Daily</td>
<td>8:45-10:00</td>
</tr>
<tr>
<td>322</td>
<td>Social Psychology (3)</td>
<td>J. Blaylock</td>
<td>Interpersonal relations; social attitudes; group dynamics; intergroup relations; class and cultural influences. Pre: 100.</td>
<td>Daily</td>
<td>7:20-8:35</td>
</tr>
<tr>
<td>424</td>
<td>Abnormal Psychology (3)</td>
<td>A. Goldstein, A. Marsella</td>
<td>Nature and causes of psychoneuroses and psychoses; abnormalities of intelligence; psychotherapy. Pre: 100.</td>
<td>(1) 10:10-11:25 (Goldstein)</td>
<td>(2) 1:10-2:25 (Marsella)</td>
</tr>
<tr>
<td>429</td>
<td>Advanced Undergraduate Seminar (3)</td>
<td>C. Tart</td>
<td>Coverage in depth of some area of research and theory. Topics may be initiated by instructors or by request of six or more students. May be repeated for credit. Pre: consent of instructor.</td>
<td>Daily</td>
<td>8:45-10:00</td>
</tr>
<tr>
<td>430</td>
<td>Complex Human Learning (3)</td>
<td>K. Minke</td>
<td>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.</td>
<td>Daily</td>
<td>11:35-12:50</td>
</tr>
<tr>
<td>431</td>
<td>Verbal Learning and Memory (3)</td>
<td>W. Battig</td>
<td>Theories, models, and mechanisms of verbal learning and memory, basic variables, research procedures, design, and methodology. Pre: 100 or consent of instructor.</td>
<td>Daily</td>
<td>8:45-10:00</td>
</tr>
<tr>
<td>432</td>
<td>Psychological Aspects of War and Peace (3)</td>
<td>H. Mansson</td>
<td>Examination of social and personal factors involved in movements toward war and peace. Pre: 100.</td>
<td>Daily</td>
<td>11:35-12:50</td>
</tr>
<tr>
<td>471</td>
<td>Environmental Psychology (3)</td>
<td>H. Weaver</td>
<td>Psychological aspects of problems of ecology, environment, and the future. (Identical with Arch 471)</td>
<td>Daily</td>
<td>7:20-8:35</td>
</tr>
<tr>
<td>491</td>
<td>Teaching Psychology (v.)</td>
<td>R. Johnson</td>
<td>Supervised experience in teaching psychology. Pre: consent of instructor and department chairman.</td>
<td>Hrs. arr.</td>
<td></td>
</tr>
<tr>
<td>499</td>
<td>Directed Reading or Research (v.)</td>
<td>Staff</td>
<td>Pre: consent of instructor and department chairman.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>640</td>
<td>Verbal Learning (3)</td>
<td>W. Battig</td>
<td>Basic variables, processes, and theories in field of verbal learning and memory.</td>
<td>Daily</td>
<td>10:10-11:25</td>
</tr>
<tr>
<td>665</td>
<td>Cross-Cultural Psychology (3)</td>
<td>H. Mansson</td>
<td>Theories of psychology and their application to cross-cultural phenomena; assessment of cross-cultural processes and social motivation; culture and personality; evaluation and design of cross-cultural research.</td>
<td>Daily</td>
<td>8:45-10:00</td>
</tr>
</tbody>
</table>

**Public Health (PH)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Days</th>
<th>Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>671</td>
<td>Advanced Environmental Psychology (3)</td>
<td>H. Weaver</td>
<td>Psychological aspects of problems of ecology, environment, and the future. (Identical with Arch 671)</td>
<td>Daily</td>
<td>10:10-11:25</td>
</tr>
<tr>
<td>699</td>
<td>Directed Reading or Research (v.)</td>
<td>Staff</td>
<td>Pre: consent of instructor and department chairman.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>700(1)</td>
<td>Seminar: General (3)</td>
<td>C. Tart</td>
<td>Special problems in psychology.</td>
<td>Daily</td>
<td>1:10-2:25</td>
</tr>
<tr>
<td>700(3)</td>
<td>Seminar: Statistics and Measurement (3)</td>
<td>M. Murray</td>
<td>Selected problems in quantitative psychology.</td>
<td>Daily</td>
<td>7:20-8:35</td>
</tr>
<tr>
<td>700(4)</td>
<td>Seminar: Experimental (3)</td>
<td>Staff</td>
<td>Problems in experimental psychology.</td>
<td>Daily</td>
<td>8:45-10:00</td>
</tr>
<tr>
<td>700(8)</td>
<td>Seminar: Developmental (3)</td>
<td>M. Hoffman</td>
<td>Current research in developmental psychology.</td>
<td>Daily</td>
<td>10:10-11:25</td>
</tr>
<tr>
<td>700(10)</td>
<td>Seminar: Clinical (3)</td>
<td>A. Goldstein</td>
<td>Observational learning in clinical psychology.</td>
<td>Daily</td>
<td>8:45-10:00</td>
</tr>
<tr>
<td>700</td>
<td>Thesis or Dissertation Research (v.)</td>
<td>Staff</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Public Health (PH)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Days</th>
<th>Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>791</td>
<td>Advanced Public Health Practice (3)</td>
<td>Staff</td>
<td>Observation, study, additional practical work in student's area of emphasis. Open to public health degree candidates only. Hrs. arr.</td>
<td>(15 sections)</td>
<td></td>
</tr>
<tr>
<td>792(3)</td>
<td>Seminar in Public Health: Environmental Sanitation (v.)</td>
<td>N. Burbank</td>
<td>Advanced seminar in selected public health topics. Pre: consent of instructor. Hrs. arr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>792(8)</td>
<td>Seminar in Public Health: Mental Health (v.)</td>
<td>R. Marvlt</td>
<td>Advanced seminar in selected public health topics. Pre: consent of instructor. Hrs. arr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>792(15)</td>
<td>Seminar in Public Health: Nutrition (v.)</td>
<td>J. Hankin</td>
<td>Advanced seminar in selected public health topics. Pre: consent of instructor. Hrs. arr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>792(100)</td>
<td>Seminar in Public Health: Population Studies II (v.)</td>
<td>R. Plon</td>
<td>Advanced seminar in selected public health topics. Pre: consent of instructor. Hrs. arr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>799</td>
<td>Directed Reading/Research (v.)</td>
<td>Staff</td>
<td>(15 sections) Pre: consent of instructor. Hrs. arr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
RELIGION (Rel)

150 Introduction to World's Major Religions (3)  
A. Bloom  
Introduction to the world's major religions—Hinduism, Buddhism, Shinto, Confucianism, Taoism, Judaism, Christianity, Islam.  
Daily 8:45-10:00

151 Religion and the Meaning of Existence (3)  
M. Aoki  
Introduction to basic ideas and issues of contemporary religious thought as related to the question "What is the meaning of existence?"  
Daily 10:10-11:25

474 Religion, Reform and Revolution (3)  
R. Bobilin  
Analysis and discussion of classical and recent sources dealing with religion and rapid social change, non-violence, black power and theology of revolution.  
Daily 10:10-11:25

SCIENCE, GENERAL (Sci)

121 Introduction to Science (4)  
D.P. Fellows  
Characteristics of science and interaction of society with science, illustrated by topics from biological science.  
Daily 7:20-8:35

Lab (1) MW 8:45-10:35  
(2) MW 8:45-10:35  
(3) MW 10:45-12:35  
(4) MW 10:45-12:35  
(5) TTh 8:45-10:35  
(6) TTh 8:45-10:35  
(7) TTh 10:45-12:35  
(8) TTh 10:45-12:35

SOCIAL WORK (SW)

655 Topics in Social Welfare:  
Experimental Training in Human Relationships (3)  
J. Fischer  
This course is intended to enhance the sensitivities and capabilities of participants in dealing with other people. The focus of training is on the helping relationship. Using experiences such as role playing and video taping, the goal is to develop high levels of warmth, empathy and genuineness in interpersonal relationships for each participant.  
Daily 8:45-10:00

660 First Year Practicum (3)  
J. Krisberg  
Field Units are maintained by the School in public and voluntary welfare agencies, as well as in governmental departments of various types. In such units students receive instruction related to their school experience with social problem situations. The practicum provides an opportunity for the student to see the applicability and experience the use of concepts and principles in actual practice.  
Hrs. arr.

760 Second Year Practicum (3)  
J. Krisberg  
Instruction in the field is continued. The practicum of the second year provides an opportunity for the student to test out the concepts, principles and theories which he has acquired and to develop his own individual manner of using them in actual practice.  
Hrs. arr.

796 Directed Individual Study in Substantive Field (v.)  
Staff  
Students, on the basis of special interest, will select a faculty member to work with on a problem for which planned individualized study is deemed advisable.  
Hrs. arr.
SOCIOLOGY (Soc)

Students should consult sociology departmental adviser and the current description of course offerings each semester.

100 Survey of General Sociology (3)  D. Swift
Basic social relationships, social structures, norms, processes affecting social change.
Daily 1:10-2:25

322(1) Survey of Community Forces in Hawaii (3)  B. Hormann
Hawaii studied from the point of view of the historical and contemporary social, cultural, ethnic, economic, political forces which contribute to an understanding of the modern society and community; Hawaii in the framework of comparative studies.
Daily 10:10-11:25

322(2) Survey of Social Change (3)  R. Cheng
This course concentrates on the study of social transformation in contemporary societies. The approach is comparative—sociological-historical. Attempt will be made to analyze processes of social change in a systematic way.
Daily 10:10-11:25

322(3) Survey, Sociology of Revolution (3)  R. Cheng
This course concentrates on the study of political revolutions which aim at the total transformation of society. The approach is comparative—sociological-historical. Attempt is made to search for important conditions leading to the occurrence of this type of political revolutions in a systematic way.
Daily 11:35-12:50

332(1) Survey of Criminology (3)  C.K. Cheng
Crimes and criminals, causative theories of criminality, institutional problems of apprehension, prosecution, incarceration, correction and rehabilitation.
Daily 8:45-10:00

332(2) Survey of Juvenile Delinquency (3)  H. Ball
Nature and extent of juvenile delinquency; sociological theories and research on causation; the organized responses of society; current controversies.
Daily 8:45-10:00

332(3) Survey of Sociology of Law (3)  H. Ball
An analysis of law as a social institution; the examination of models of law; an examination of law as an instrument of planned social change.
Daily 1:10-2:25

342 Survey of Social Psychology (3)  L. Killian
A survey of the theories and empirical findings of the relationship between personality and society from a sociological perspective.
Daily 11:35-12:50

352(1) Survey of People and Institutions of China (3)  C.K. Cheng
This course is an overall survey of the traditional Chinese institutions, their changes in response to the impact of the West and modern technology, and as a result of the rise of Maoist communism. It is designed to introduce the Chinese people and structural-functional organization of their society to students in the West.
Daily 10:10-11:25

352(2) Survey of Sociology of Religion (3)  B. Hormann
Using Hawaii as a point of reference, the contrast between folk religion and religion in secular society is studied.
Daily 7:20-8:35

352(3) Survey of Sociology of Education (3)  D. Swift
Education in four major areas. (1) A general setting, including businesses, military organizations and churches; (2) elementary schools; (3) junior high and high schools; (4) colleges and universities.
Daily 2:35-3:50

422 Analysis in Race Relations (3)  L. Killian
Race relations in world perspective; typical situations; conflict and accommodation; caste; race prejudice; miscegenation; effects upon personality. Pre: 200 or consent of instructor.
Daily 10:10-11:25

499 Directed Reading (v.)  G. Kassebaum

799 Directed Research (v.)  G. Kassebaum

SPEECH-COMMUNICATION (SpCom)

145 Interpersonal Speech-Communication (3)  J. Kido,
(3 sections) E. Kunimoto, K. Sitaram
Introduction to speech-communication theory through participation in interpersonal communication activities.
Daily (1) 7:20-8:35 (Kido)
(2) 8:45-10:00 (Kunimoto)
(3) 10:10-11:25 (Sitaram)

231 Reading Aloud (3)  R. Rider
Principles of interpretative reading. Practice in textual analysis and in transmitting intellectual and aesthetic content of literature.
Daily 8:45-10:00

333 Storytelling (3)  P. Hunsinger
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. Ekroth
Analysis of major variables affecting interpersonal communication between persons of differing cultural backgrounds.
Daily 10:10-11:25

499 Special Problems (v.)  Staff
Speech-communication behavior.
Hrs. arr.

602 Methods of Scientific Research in Speech-Communication Systems (3)  P. Heinberg
Study of methods of scientific research. Development of competence in fundamental skills necessary for completion of a thesis. Pre: 601 and one of the following—671, 672, 681, or 682.
MW 8:45-11:25

651 Seminar in Rhetoric and Public Address (3)  S. Sanderson
Review of rhetoric and public address. Pre: consent of instructor.
MW 1:10-3:50

672 Speech Communication in the Control of Behavior (3)  P. Heinberg
Research and research techniques in the use of speech-communication to shape psychomotor skills and relevant attitudes. Pre: 671.
TTh 1:10-3:50

681 Speech-Communication Process Analysis (3)  B. Byers
Description of the problems involved in analyzing various aspects of the speech communication process. Theoretical frameworks of analysis. Pre: permission of instructor.
TTh 8:45-11:25

800 Thesis (v.)  Staff
SPEECH PATHOLOGY AND AUDIOLOGY (SPA)

300 Introduction to Speech Correction (3)  D.F. McPherson
Survey of field of speech correction; study of types of speech defects and hearing problems as they relate to speech dysfunctions. Daily 7:20-8:35

301 Introduction to Audiology (3)  M. Ansberry
Basic concepts: psychoacoustics, anatomy and physiology, measurement of hearing, rehabilitation of hard-of-hearing. Daily 8:45-10:00

315 Hearing Habilitation and Rehabilitation (3)  G.K. Pang-Ching
Principles and methods of habilitation and rehabilitation of children and adults with hearing problems; means of developing maximum ability in communication. Daily 7:20-8:35

410 Practicum in Speech Pathology (1-2)  D.F. McPherson
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)  G.K. Pang-Ching
Clinical practice in testing of hearing, hearing conservation, auditory training, speech reading, speech correction and conservation. Hrs. arr.

710 Advanced Practicum in Speech Pathology (1-2)  D.F. McPherson
Supervised clinical practice in diagnostic and therapeutic procedures. Hrs. arr.

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

720 Seminar in Speech Pathology—Functional Disorders (3)  D.F. McPherson
Advanced study of functional disorders of speech with emphasis on the current literature in the area. Daily 8:45-10:00

721 Seminar in Audiology—Diagnostic Procedures (3)  M. Ansberry
Study of diagnostic procedures used in clinical audiology; demonstration of tests used to assist in location site of lesions, determining organic and functional components of a hearing dysfunction; review of literature in this area. Daily 11:35-12:50

799 Research (1 & 2) (1-4)  M. Ansberry
(1) Speech pathology; (2) audiology. Required of all graduate students following non-thesis program (Plan B); open to other qualified graduate students. Hrs. arr.

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. Daily 7:20-8:35 Laboratory (1) TTh 8:45-11:25 (2) TTh 1:10-3:50

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

420 Embryology (4)  S.R. Haley
Analysis of developmental phenomena in animals. Pre: Biol 220. MTWTh 10:30-12:30 Laboratory TTh 1:30-3:30

499 Directed Reading and Research (v.)  F. Kamemoto
Limited to senior majors with 2.7 grade-point or 3.0 grade-point ratio in zoology. Hrs. arr.

699 Directed Research (v.)  F. Kamemoto
Directed research and reading in various fields of zoology. Hrs. arr.
OFF-CAMPUS COURSES
June 19–July 28

Ed CI 540(13) Practicum in Curriculum Development: Staff
General Curriculum & Teaching Problems:
Individualization of Instruction & Learning:
Personalizing Education, K-3 (3)
(7 sections)
Designed for teachers in service to upgrade subject matter and develop new teaching methods and materials for instruction in general curriculum and teaching problems. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods courses; teaching experience. May be repeated for credit.
Daily Hrs. arr.
(20) Honolulu District (Jefferson School)
(21) Central District (Aliamanu Elementary & Aliamanu Intermediate schools)
(22) Leeward District (Campbell High, Ilima Intermediate & Pohakua Elementary schools)
(23) Windward District (Kailua High School)
(24) Hawaii District
(25) Maui District (Lihikai Elementary School)
(26) Kauai District (Wilcox School)

Ed CI 540(13) Practicum in Curriculum Development: Staff
General Curriculum & Teaching Problems:
Individualization of Instruction & Learning:
Personalizing Education, 7-9 (3)
(7 sections)
Designed for teachers in service to upgrade subject matter and develop new teaching methods and materials for instruction in general curriculum and teaching problems. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods course; teaching experience. May be repeated for credit.
Daily Hrs. arr.
(34) Honolulu District (Jefferson School)
(35) Central District (Aliamanu Intermediate & Aliamanu Elementary schools)
(36) Leeward District (Campbell High, Ilima Intermediate & Pohakua Elementary schools)
(37) Windward District (Kailua High School)
(38) Hawaii District
(39) Maui District (Lihikai Elementary School)
(40) Kauai District (Wilcox School)

Ed CI 540(13) Practicum in Curriculum Development: Staff
General Curriculum & Teaching Problems:
Individualization of Instruction & Learning:
Personalizing Education, K-3 (3)
(7 sections)
Designed for teachers in service to upgrade subject matter and develop new teaching methods and materials for instruction in general curriculum and teaching problems. Development of curriculum materials and methods by participating teachers. Pre: related undergraduate methods courses; teaching experience. May be repeated for credit.
Daily Hrs. arr.
(41)
SECOND TERM
July 24-September 1

AGRICULTURE, TROPICAL

Agriculture (Ag)
399 Agricultural Thesis (v.) S. Goto

Agricultural Economics (AgEc)
399 Directed Study (v.) F. S. Scott
Limited to exceptional undergraduate students who are qualified to carry on advanced study. Pre: consent of instructor.
699 Directed Research (v.) F. S. Scott
800 Thesis (v.) Staff

Agricultural Engineering (AgEng)
699 Directed Research (v.) J. K. Wang
800 Thesis (v.) Staff

Agronomy (Agron)
499 Directed Study (v.) D. Bartholomew
651 Advanced Techniques in Plant and Soil Analysis (3) H. Y. Young
Methodology for the analysis of plant tissue and soil with emphasis on spectrophotometric, gas chromatographic, and automated techniques for the determination of inorganic and organic constituents. Daily 8:30-9:20 Laboratory daily 9:30-11:20
699 Directed Research (v.) D. Bartholomew
799 Directed Research (v.) D. Bartholomew
800 Thesis (v.) Staff

Animal Sciences (AnSc)
499 Directed Study (v.) R. W. Stanley
699 Directed Research (v.) R. W. Stanley
800 Thesis (v.) Staff

Entomology (Ento)
699 Directed Research (v.) W. Mitchell
800 Thesis (v.) Staff

Food Science & Technology (FdSc)
699 Directed Research (v.) R. Moser
800 Thesis (v.) Staff

Horticulture (Hort)
499 Directed Study (v.) H. Kamemoto
699 Directed Research (v.) H. Kamemoto
800 Thesis (v.) Staff

Plant Pathology (PPath)
499 Directed Research (v.) O. Holtzmann
699 Directed Research (v.) O. Holtzmann
800 Thesis (v.) Staff

Soil Science (Soils)
499 Directed Study (v.) S. El-Swaify
699 Directed Research (v.) S. El-Swaify
799 Directed Research (v.) S. El-Swaify
800 Thesis (v.) Staff

AMERICAN STUDIES (AmSt)
202 Introduction to American Civilization (3) A. Kauka, P. Senecal (2 sections)
The central concerns of contemporary American life and thought studied in the light of multidisciplinary perspectives. Daily (1) 8:45-10:00 (Senecal)
(2) 8:45-10:00 (Kauka)
486 Contemporary American Civilization (3) F. Matson
799 Directed Research (v.) Staff
ANATOMY (Anat)

634 Experimental Methods in the Study of Reproductive Behavior (v.) M. Diamond
Individual research on endocrine and neural aspects of sexual behavior in experimental animals. Pre: one year of psychology; one year of zoology; consent of instructor. Hrs. arr.

699 Directed Research (v.) V. DeFeo
Students learn specific techniques, methodology and pitfalls of experimental research under close guidance by faculty member. Pre: consent of instructor. Hrs. arr.

800 Thesis Research (v.) V. DeFeo
Pre: consent of adviser. Hrs. arr.

ANTHROPOLOGY (Anth)

150 Introduction to Anthropology (3) A. Rambo
Major principles and theoretical orientations of physical anthropology, archaeology, and ethnology. With grade of A or B, may serve as an introductory requirement to upper division courses; intended for non-majors.
Daily 8:45-10:00

200 Cultural Anthropology (3) E. Vogt
Nature of culture; introduction to basic concepts for analyzing cultural behavior; patterning, integration, and dynamics of culture; culture and the individual.
Daily 10:10-11:25

210 Archaeology (3) P. Gathercole
Introduction to prehistoric archaeology; methods and techniques of excavation and laboratory analysis; brief survey of man’s cultural growth in prehistoric times.
Daily 11:35-12:50

380 Archaeological Field Techniques (3) H. Tuggle
Archaeological survey and excavations; week-end field trips, mapping, photography, recording. Pre: 210 Hrs. arr.

399 Directed Reading or Research (v.) R. Lieban
Pre: 2.7 grade-point ratio, or 3.0 grade-point in anthropology, or written consent of instructor. Hrs. arr.

699 Directed Reading or Research (v.) R. Lieban
Pre: classified graduate standing and written consent of instructor. Hrs. arr.

800 Thesis Research (v.) Staff

ART (Art)

107 Elementary Studio—Photography (3) N. Shapiro
Studio experience mainly for non-majors. Lectures and projects. Credit cannot count towards major requirement in Art. Daily 7:20-10:00

108 Elementary Studio—Drawing and Painting (3) R. Davidson
Studio experience mainly for non-majors. Lectures and projects. Credit cannot count towards major requirements in Art. Daily 8:45-11:25

207 Photography A (3) N. Shapiro
Camera as tool of expression and photography as basic art form. Students required to have own camera.
Daily 10:10-12:50

213 Life Drawing (3) J. Dunn
Drawing from the model.
Daily 8:45-11:25

223 Painting “A” (3) B. Norris
Painting from studio and outdoor subject matter. Elements of pictorial style.
Daily 8:45-11:25

BOTANY (Bot)

399 Botanical Problems (v.) N. Kefford
Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in botany. May be repeated.

612 Advanced Botanical Problems (v.) N. Kefford
Investigation of any botanical problem; reading and laboratory work. Pre: consent of instructor. May be repeated.

699 Directed Research (v.) N. Kefford
Pre: candidacy for M.S. degree; consent of instructor.

799 Directed Research (v.) N. Kefford
Pre: candidacy for Ph.D. degree; consent of instructor.

800 Thesis Research (v.) Staff
BUSINESS ADMINISTRATION

Accounting (Acc)

201 Elementary Accounting (3) Staff
Theory and practice of income determination and asset valuation. Preparation and analysis of statements; uses for decision making. Pre: sophomore standing. Daily 7:20-8:35 (Labs to be announced)

202 Elementary Accounting (3) Staff
Theory and practice of income determination and asset valuation. Preparation and analysis of statements; uses for decision making. Pre: 201. Daily 10:10-11:25 (Labs to be announced)

305 Cost Accounting (3) Staff
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. Daily 10:10-11:25

323 Financial Accounting II (3) Staff
Accounting for corporate equities, long-term debt, investments, funds flow, analysis of financial statements, and partnerships. Pre: 321. Daily 8:45-10:00

331 Auditing (3) Staff
Principles of conduct of a business audit. Practical aspects of auditing emphasized by problems. Pre: 305, and 323 or 365. Daily 8:45-10:00

Business Analysis and Statistics (BAS)

122 Mathematics for Decision Making II (3) N. El-Ramly
Applications of mathematical operations to business and economics; equations and their graphs, limits, continuity, derivatives and their use in minimax problems, partials, indefinite and definite integrals, techniques and applications, improper and numerical integrations, distribution functions and multiple integrals. Pre: 121. Daily 8:45-10:00

301 Business Statistics (3) T. Ledford
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. Pre: 122 or 125. Daily 10:10-11:25

302 Business Statistics (3) C. Congdon
(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. Pre: 301. Daily (1) 7:20-8:35 (Congdon) (2) 10:10-11:25 (Congdon)

351 Introduction to Computers and Data Processing (3) T. Ledford
Introduction to computer hardware and software systems, with emphasis on the impact of computers and their use in organizations. Actual experience in computer programming using an algorithmic language. (FORTRAN, BASIC PL/1) Pre: 122 or 125. Daily 8:45-10:00

Business Economics (BEc)

201 Economic Environment of Business (3) T. Ige
Introduction to the principles of economics, role and responsibility of business in a market economy and the current social and economic issues in the American economy as they affect business and industry. Acquaintance with the existence of issues and their complexity stressed. Daily 7:20-8:35

349 Managerial Economics (3) T. Ige
Application of economic and statistical concepts for business decisions using case study methods. Subjects cover projection of demand and production, cost analysis, problems of forecasting, multifactors and multiproducts, technological change; capital budgeting; input-output analysis and programming techniques. Pre: 341. Daily 10:10-11:25

Finance (Fin)

300 Business Finance (3) Staff
Introduction to functions, techniques, and problems of business finance; investing in assets, financing strategies, planning and control. Pre: Acc 202. Daily 11:35-12:50

311 Investments (3) M. Hicks
Mechanics of investment banking and markets, corporate and government securities, selection and security analysis, risk programming and establishment of investment policy for individuals and institutions. Pre: 300. Daily 10:10-11:25

Law (Law)

300 Legal Environment of Business I (3) D. Bury
(2 sections)
Introduction to legal environment in which business operates and some of the legal principles applicable to effective business administration. Particular attention given to government regulation of business and to laws of contracts, agency, partnerships, and corporations. Daily (1) 7:20-8:35 (Bury) (2) 8:45-10:00 (Bury)

Management (Mgt)

301 Management and Organizational Behavior (3) D. Ellis
Analysis of the management process with particular emphasis on human resources. Daily 11:35-12:50

302 Operations Management I (3) P. DuMont
Management of the production and operations functions of an enterprise. Pre: BAS 302. Daily 8:45-10:00

322 Operations Management Control (3) P. DuMont
Inventory and production planning and control, manufacturing processes, inspection and quality control, equipment selection and replacement analysis. Pre: 302. Daily 10:10-11:25

345 Business Policy (3) H. Reeser
Case studies in assessing alternative risks in solving policy problems; an interdisciplinary approach applying and integrating many subjects in college curriculum. Pre: 2nd semester senior standing. Daily 2:35-3:50
397 Organizational Communication (3)  
D. Ellis  
Intensive practice in the skills necessary for one to operate effectively in an organizational environment. Skills include writing, speaking, reading, and listening. Instruction will be based upon modern theory, with close attention to the development of the skills necessary to apply this theory in a variety of business situations.  
Daily 1:10-2:25

Marketing (Mkt)

300 Principles of Marketing (3)  
H. Stellmacher  
Fundamental concepts and problems of marketing within present economic, legal and social environments; consumer analysis, functional analysis, marketing institutions. Prerequisite to all other marketing courses.  
Daily 7:20-8:35

321 Marketing Information Analysis (3)  
E. Faison  
Research aids to marketing management; nature of the research process; planning research including problems of sampling and measurement; experimental and non-experimental methods and techniques; analysis of data. Pre: BAS 302 or consent of instructor.  
Daily 2:35-3:50

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

341 Retailing Management (3)  
M. Geurts  
Principles, functions and analysis of problems in retailing location and layout; merchandise planning, buying and selling organization; expense analysis and control; coordination of store activities.  
Daily 2:35-3:50

371 Consumer Behavior (3)  
H. Kramer  
Analysis of consumer behavior and motivation, principles of learning, personality, perception, and group influence, with emphasis upon mass communications effects.  
Daily 11:35-12:50

381 Multi-national Marketing (3)  
Staff  
Methods and organization peculiar to international marketing with emphasis on practical and technical aspects.  
Daily 7:20-8:35

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 8:45-10:00

Personnel and Industrial Relations (PIR)

363 Collective Bargaining and Dispute Settlement (3)  
P. Staudohar  
Principles and concepts of collective bargaining; methods of settling disputes over rights and interests.  
Daily 1:10-2:25

Real Estate (RE)

300 Principles of Real Estate and Urban Land Economics (3)  
E. Laitila  
(2 sections)  
Principles including legal, physical, economic elements; valuation, market analysis, finance; and public and private externalities affecting the allocation and utilization of real estate resources.  
Daily (1) 10:10-11:25 (Laitila)  
(2) 1:10-2:25 (Laitila)

Transportation (Trans)

352 Passenger Transportation (3)  
D. Bess  
Analysis of models 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: Econ 151 or BEe 341.  
Daily 7:20-8:35

453 Air Travel Management (3)  
E. Johnston  
Designed to develop students' understanding of the breadth and challenge of strategic problems—current and future—which confront airline and airport executives. The program will cultivate an awareness of the environment in which the airline and airport industry must function, both today and in the future. New techniques and management tools employed by effective airline and airport managers analyzed. Pre: 351, 352.  
Daily 8:45-10:00

Travel Industry Management (TIM)

100 Internship (0)  
R. Hill  
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.

200 Internship (0)  
R. Hill  
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)  
R. Hill  
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.

400 Internship (1)  
R. Hill  
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.
CHEMISTRY (Chem)

244 Organic Chemistry (3)  
G. Stacy  
Continuation of Chem 243.  
Daily 8:45-10:00

246 Organic Chemistry Laboratory (1)  
Staff  
Continuation of Chem 245. Pre: 245, credit or registration in 244. Laboratory MWF 1:00-3:00

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

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

EAST ASIAN LANGUAGES

General (EALa)

200(1) Directed Intermediate Language Study: Chinese (3)  
Staff  
Directed intermediate study of an East Asian language, including regularly offered languages in special cases and languages not regularly offered if demand warrants and staff available. May be repeated for credit. Pre: consent of department chairman. Daily 1:10-2:25 plus laboratory

200(2) Directed Intermediate Language Study: Japanese (3)  
Staff  
Directed intermediate study of an East Asian language, including regularly offered languages in special cases and languages not regularly offered if demand warrants and staff available. May be repeated for credit. Pre: consent of department chairman. Daily 1:10-2:25 plus laboratory

200(3) Directed Intermediate Language Study: Korean (3)  
Staff  
Directed intermediate study of an East Asian language, including regularly offered languages in special cases and languages not regularly offered if demand warrants and staff available. May be repeated for credit. Pre: consent of department chairman. Daily 1:10-2:25 plus laboratory

Chinese (Chnse)

102 Elementary Chinese (3)  
Staff  
Development of listening, speaking, reading and writing. Structural points introduced inductively. Daily 9:10-11:25 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 Special Intermediate Chinese (4)  
Staff  
Rapid introduction to spoken and written standard Chinese for students who already have some knowledge of the writing system (including students who have background in Cantonese, Hakka, Japanese, etc.). Content of 201-202 covered. Daily laboratory work. Pre: 105 or equivalent. Daily 9:10-11:25 plus laboratory

Japanese (Jpnse)

102 Elementary Japanese (3)  
Staff  
(4 sections)  
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

202 Intermediate Japanese (4)  
Staff  
(3 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

EAST ASIAN LITERATURE

Japanese (JaLit)

262 Japanese Literature in Translation—Modern (3)  
M. Tahara  
Readings in modern Japanese literature, with emphasis on analysis and comparison. Daily 8:45-10:00

ECONOMICS (Econ)

120 Introduction to Economics (3)  
S. Jackstadt  
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. Credit not given for both this course and 150. Daily 8:45-10:00

150 Principles of Economics (3)  
R. Rice  
Analysis of functioning of economic systems with emphasis on forces determining levels and changes of national income, employment and price levels. Describes basic economic institutions, e.g., markets, money, banks, labor organizations, corporations. Credit not given for both this course and 120. Daily 8:45-10:00

300 Intermediate Economic Theory: Macroeconomic Analysis (3)  
J. Mak  
Concepts; determination of income, employment, price levels; effects of fiscal, monetary, other policies. Pre: 150. Daily 10:10-11:25

340 Money and Banking (3)  
J. Hight  
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

460 International Trade Theory (3)  
Y.H. Yeh  
Theoretical, institutional and historical aspects of international economic relations considered, including foreign exchange rates, balance of payments adjustments, tariffs, quotas, trading blocks. Pre: 300, 301. Daily 8:45-10:00
EDUCATION
Curriculum and Instruction (Ed CI)
Courses numbered from 312 through 399 have as prerequisite enrollment in the College of Education as a classified student.

312(10) Foundations in Curriculum and Instruction: D.M. Ching
Secondary Education (3)
Study of objectives and organization of school's curriculum: discussion of principles and practices; roles of teacher in school. Daily 10:10-12:05 July 24 to August 17 (4 weeks)

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 interest. Pre: 312 or concurrent registration. Daily (1) 8:45-10:00 (2) 10:10-11:25 July 24 to August 17 (4 weeks)

320 Language Arts, Elementary (2)
N. Izutsu, V. Chattopadhyay
(2 sections)
Modern approach to teaching of language arts—reading, oral, written expression. Pre: 312 or concurrent registration. Daily (1) 8:45-10:00 (Izutsu) (2) 10:10-11:25 (Chattopadhyay) July 24 to August 17 (4 weeks)

321 Reading, Elementary (2)
B. Uehara. Staff
(2 sections)
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. Pre: 312 or concurrent registration. Daily (1) 8:45-10:00 (Uehara) (2) 10:10-11:25 July 24 to August 17 (4 weeks)

324 Mathematics, Elementary (2)
Staff
Purpose, 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: Math 111. Daily 10:10-11:25 July 24 to August 17 (4 weeks)

326 Creative Art, Elementary (2)
A. Pickens
Understanding scope and importance of art in elementary school curriculum, creative use of art media through laboratory experiences. Pre: 312 or concurrent registration. Daily 8:00-12:00 July 24 to August 17 (4 weeks)

329 Creative Expression in Elementary Education (3)
E. Hayes
Development of communication skills through creative dramatics, rhythm movement, related arts. Pre: 312 or concurrent registration or consent of instructor. Daily 7:30-10:30 July 24 to August 17 (4 weeks)

331 Teaching of Reading in Intermediate and High School (2)
J. Conner
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 24 to August 17 (4 weeks)

345 Literature for Adolescents (2)
J. Conner
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 24 to August 17 (4 weeks)

488 Creative Process in Development and Learning (3)
E. Hayes
Study of creative process and its values in education. Designed to modify behavior of classroom teacher in identifying and encouraging creative ability of children. Many teaching models will be examined and assessed as to their usefulness in developing creative teaching. Laboratory experiences or consent of instructor. Daily 9:45-12:45 July 24 to August 17 (4 weeks)

520 Supervision of Student Teaching (3)
F. Kanzaki
Principles and methods; role of supervisor; human relations in supervision of student teaching. Pre: teaching experience; consent of instructor. Daily 10:10-12:05 July 24 to August 17 (4 weeks)

540(9) Practicum in Curriculum Development:
J. Cunningham
Science (3)
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. May be repeated for credit. Daily 8:00-11:00 July 31-August 17 (3 weeks)

620 Teaching Reading in the Elementary School (3)
B. Uehara
Developmental and psychological aspects of the reading process; studying current trends, research, techniques of evaluation. Pre: 321. Daily 10:10-12:05 July 24 to August 17 (4 weeks)

Industrial Education (Ed IE)
401 Problems in Industrial Education (1)
L. Zane
Problem arranged for specialization in several technical areas. May be repeated for total of 5 credits. (To be taken concurrently with 497.) W 6:30-9:20 p.m.

402 Improvement of Instruction, Industrial Education (1)
L. Zane
Consideration of problems in teaching industrial education. May be repeated for total of 5 credits. Daily Hrs. arr. July 24-28—Ala Moana Hotel
497 Cooperative Vocational Experiences (v.)  L. Zane
A planned work-experience program for special areas of vocational-technical education. Learning experience includes an acceptable type of wage earning employment. A minimum of six 40-hour weeks or 240 work hours are required for each 3 semester hours of credit. May be repeated. Pre: consent of instructor. (To be taken concurrently with 401 or 402.) Hrs. arr.

Educational Communications (Ed EC)
599, its equivalent, or consent of department chairman is prerequisite to all 600 and 700 level courses; additional prerequisites as noted.

599 Workshop in Educational Media (1)  L. Lum
Concentrated study and practical experience in utilization of educational media through 8 hours of lecture-demonstrations and 8 laboratory hours for each 1-credit sequence. May be repeated through workshops covering different media up to maximum of 3 credits. Daily 10:50-11:45 July 24 to August 17 (4 weeks)

620 Production of Instructional Materials (3)  R. Sparks
Preparation of two- and three-dimensional instructional materials, charts, graphs, learning displays, television graphics, overhead transparencies, audio recordings, and use of Ektagraphic visual maker. Daily 11:50-1:45 July 24 to August 17 (4 weeks)

623 Survey and Production of Asian and Pacific Study Materials (3)  L. Lum
Selection, evaluation and use of instructional materials available to teachers of Asian and Pacific studies subjects. Adapting existing materials or creating new materials; maps and models, audio recordings, flat pictures, slide sets, projectuals, filmstrips, realia and films. Pre: consent of instructor. Daily 8:45-10:40 July 24 to August 17 (4 weeks)

639 Mass Communication and Education (3)  G. Kucera
Investigation of educational role of radio, TV and film as social forces of times; seeking out of perspectives on technological revolution of education communications. Mass media and the future of education. Pre: consent of instructor. Daily 8:45-10:40 July 24 to August 17 (4 weeks)

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, V. Kobayashi
Contemporary educational theory and practice as related to major historical, philosophical, and social factors in American culture. Daily (1) 8:00-9:55 (Kobayashi) (3) 10:10-12:05 (Beauchamp) (2) 8:00-9:55 (Beauchamp) July 24 to August 17 (4 weeks)

409 Culturally and Economically Disadvantaged Pupil (3)  Staff
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. (Identical with SpEd 409.) Daily 8:00-9:55 July 24 to August 17 (4 weeks)

490 Zen and Education (3)  V. Kobayashi
Examination of philosophy and methods by which Zen masters, and possibly other mystic teachers, approach problem of changes in world-view of the learner; consideration of their possible relevance to present educational conceptions. Pre: consent of instructor. Daily 10:10-12:05 July 24 to August 17 (4 weeks)

651 History of American Education (3)  S. Jaeckel
Introduction to history of American educational thought from 17th century to present. Daily 8:00-9:55 July 24 to August 17 (4 weeks)

683 Social Foundations of Education (3)  Staff
Impact on education of major social trends and forces operating in American society; social change and education. Daily 10:10-12:05 (Jaeckel) July 24 to August 17 (4 weeks)

699 Directed Reading or Research (v.)  R. Stueber

Educational Psychology (Ed 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.

311 Psychological Foundations (3)  Staff
(2 sections)
Principles of learning and individual differences; relationships of these factors to classroom experience. Pre: Psy 100. Daily (1) 8:00-9:55 (2) 10:10-12:05 July 24 to August 17 (4 weeks)

416 Tests and Measurements (3)  Staff
(2 sections)
Theory and techniques of measurement and evaluation in education, including supervised experience in instrument development and analysis. Daily (1) 8:00-9:55 (2) 10:10-12:05 July 24 to August 17 (4 weeks)

601 Guidance in the School (3)  D. Fullmer
Basic principles of guidance; consideration of techniques, organization, materials, resources. Daily 8:00-9:55 July 24 to August 17 (4 weeks)

605 Problems of School Adjustment (3)  Staff
Principles of behavior affecting human relationships in schools, with emphasis upon application to actual situations. Daily 10:10-12:05 July 24 to August 17 (4 weeks)

608 Introduction to Educational Research (3)  N. Wallen
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 24 to August 17 (4 weeks)
Health & Physical Education (HPE)

Medical Clearance Requirement: For HPE courses numbered 101-197, 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 28. For the procedure to obtain this clearance, see page 24.

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 8:45-10:05
July 24 to August 17 (4 weeks)

107 Tennis: Beginning (1) L. Hisaka
Rules, etiquette, grip, forehand and backhand strokes, serving, volleying; singles and doubles play.
Daily (1) 8:00-9:20 (Hisaka) (2) 9:30-10:50 (Hisaka)
(3) 11:10-12:30 (Hisaka)
July 24 to August 17 (4 weeks)

110 Golf: Beginning (1) G. Krahenbuhl
Rules, etiquette, grip, stance, drive, normal iron shots, approach shots, putting.
Daily 10:10-11:30
July 24 to August 17 (4 weeks)

123 Folk and National Dances (1) L. Kaina
Popular dances of various national groups, including square dances.
Daily 8:45-10:05
July 24 to August 17 (4 weeks)

162 Karate (1) H. Tagomori
Rules, etiquette, basic stances, blocks, thrusts, kicks, ippon kumite, and selected kata. (Student must provide own gi.)
Daily 8:45-10:05
July 24 to August 17 (4 weeks)

Course numbered 201 and above are not open to lower division students except for pre-education majors with the consent of department chairman.

332 Emergency Care and First Aid Instructor Training (2) G. Seichi
Practicum in training of persons to become qualified instructors of emergency care knowledge and first aid skills; American Red Cross certificate may be earned. Pre: consent of instructor.
Daily 10:10-11:25
July 24 to August 17 (4 weeks)

433 Music and Rhythms in Physical Education (2) L. Kaina
Use of music in physical education program, emphasizing selection of appropriate music for specific activities as expressive or creative movement, movement exploration, rhythmic gymnastics, dancing.
Pre: consent of instructor; Mus 117 and 118 desirable.
Daily 10:10-11:25
July 24 to August 17 (4 weeks)

436 Methods and Materials of Aquatics and Life Saving (2) G. W. Mock
Methods of teaching swimming; theory and techniques of life saving and water safety leading to American Red Cross certification (W.S.I.). Pre: 104 or consent of instructor.
Daily 10:10-11:25
July 24 to August 17 (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 education. Pre: 203 and 233, Psy 320 or consent of instructor.
Daily 8:00-9:55
July 24 to August 17 (4 weeks)

603 Scientific Foundations of Physical Education (3) R. Tracy
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 8:00-9:55
July 24 to August 17 (4 weeks)

Special Education (SpEd)

404 Introduction to Special Education (3)
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 8:00-9:55

499 Culturally and Economically Disadvantaged Pupil (3)
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. (Identical with Ed EF 409.)
Daily 10:10-12:05

ENGINEERING

Civil Engineering (CE)

271 Applied Mechanics II (3) J. Yuen
Dynamics of particles and rigid bodies; force acceleration, impulse-momentum, work energy. Pre: 270, Match 206.
Daily 8:45-10:00

699 Directed Research (v.) Staff

800 Thesis (v.) Staff

Mechanical Engineering (ME)

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

331 Materials Science (3) Staff
Behavior of materials as determined by structure and environment. Interrelationships between microscopic and macroscopic structure and phenomenological properties.
Daily 10:00-11:25

499 Project (v.) R. M. Fand
Investigation of advanced problems in mechanical engineering design or development. Pre: senior standing.

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

800 Thesis (v.) Staff

Ocean Engineering (OE)

699 Directed Research (v.) C. L. Bretschneider
800 Thesis Research (v.) Staff
ENGLISH (Eng)

100 Expository Writing (3)  N. Brown, M. Chirila, C. Church, K. Macdonald, R. Rogers, 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 the expository pieces by professional writers.
Daily (1) 7:20-8:35 (Macdonald)  (4) 10:10-11:25 (Chirila)
(2) 8:45-10:00 (Rogers)  (5) 10:10-11:25 (Brown)
(3) 8:45-10:00 (Church)  (6) 11:35-12:50 (Staff)

251 Major Work of British and American Literature (3)  C. Sherman, H. Topham
From the Middle Ages to 1800; an introductory course for sophomores.
Daily (1) 7:20-8:35 (Topham)
(2) 8:45-10:00 (Sherman)

252 Major Works of British and American Literature (3)  N. Brown, L. Roecklein
From 1800 to the present; an introductory course for sophomores.
Daily (1) 8:45-10:00 (Roecklein)
(2) 11:35-12:50 (Brown)

253 World Literature: To the Renaissance (3)  M. Chirila, J. Morrison
Major works of classical, Oriental, European and English literature.
Daily (1) 7:20-8:35 (Chirila)
(2) 8:45-10:00 (Morrison)

254 World Literature: 1600 to the Present (3)  J. Morrison, L. Roecklein
Major works of classical, Oriental, European, American and English literature.
Daily (1) 10:10-11:25 (Roecklein)
(2) 11:35-12:50 (Morrison)

255 Types of Literature (3)  C. Sherman, C. Church, L. Lichty, K. Macdonald
Practical criticism in the major genres of European and American literature. Drama, biography, poetry.
Daily (1) 7:20-8:35 (Lichty)  (3) 10:10-11:25 (Church)
(2) 8:45-10:00 (Macdonald)  (4) 11:35-12:50 (Sherman)

256 Types of Literature (3)  O. Newton, R. Rogers
Practical criticism in the major genres of European and American literature. Drama, biography, poetry.
Daily (1) 7:20-8:35 (Rogers)
(2) 8:45-10:00 (Newton)

390 Written Communication (3)  L. Lichty, Staff
Practice in informative, analytical, and persuasive writing. Open only to students in Business Administration and Home Economics. Pre: 100 and sophomore literature, or equivalent.
Daily (1) 7:20-8:35 (Staff)
(2) 8:45-10:00 (Lichty)

336 Introduction to Literary Problems (3)  R. McHenry
Critical evaluation of the genres of literature, of various modes of analysis, of problems involved in literary perception.
Daily 10:10-11:25

403 American English (3)  A. Marckwardt
The linguistic, regional, and cultural developments of American English from the Colonial period to the present in literary works.
Daily 8:45-10:00

445 Shakespeare (3)  H. Topham
Shakespeare's plays from Hamlet through the last plays. Daily 10:10-11:25

456 Restoration Literature (3)  R. McHenry
Poetry, prose, drama from 1660 to 1700, exclusive of Milton. Daily 7:20-8:35

489 Studies in Comparative Literature (3)  Staff
World Tragedy. Daily 8:45-10:00

745 Seminar in English Language (3)  A. Marckwardt
MWF 11:35-1:40

799 Directed Research (v.)  J. Maltby
Individual reading or research. Pre: consent of instructor. Hrs. arr.

800 Thesis Research (v.)  J. Maltby
Thesis research. Pre: consent of instructor. Hrs. arr.

ENGLISH AS A SECOND LANGUAGE (ESL)

699 Directed Reading (v.)  R. Crymes

799 Directed Research (v.)  R. Crymes
GENETICS (Genet)
699 Directed Reading (v.) G. Ashton
800 Thesis Research (v.) Staff

GEOGRAPHY (Geog)
101 Elements of Physical Geography (3) Staff
Survey of man's natural environment; distribution and interrela-
tionships of climates, vegetation, soils, landforms. Laboratory pro-
blems 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) L. Masterson
Geography of world's major cultural regions; emphasis on geo-
graphic aspects of contemporary economic, social, political condi-
tions.
Daily 10:10-11:25

368 Geography of Hawaii (3) A. Piianaia
Regional, physical, cultural geography. Detailed study of people and
resources.
Daily 8:45-10:00

375 Introduction to Cartography and Air Photo Methods (3)
E. Wingert
Principles of cartography; compilation from various sources includ-
ing aerial photographs, measurements from aerial photographs, alter-
ate forms of data presentation, symbolism, design and map projec-
tions.
Daily 9:10-10:00 Laboratory (1) MW 1:30-4:20
(2) TTH 1:30-4:20

799 Directed Research (v.) Staff
Pre: consent of instructor Hrs. arr.
800 Thesis Research (v.) Staff

800 Thesis Research (v.) Staff

GEOLOGY AND GEOPHYSICS (GG)
614 Advanced Field Study (v.) S. Laurila
Field projects in geological sciences. Hrs. arr.

660 Seminar in Solid Earth Geophysics (v.) A. Furumoto
(a) Tectonics and crustal deformation. (b) Isostasy. (c) Properties
of earth matter. (d) Physics of interior of earth. (e) Statistical in-
terpretation. (f) Tsunamis. (g) Geomagnetism. Pre: consent of in-
structor. May be repeated for credit. Hrs. arr.

680 Seminar in Geodesy (v.) S. Laurila
(a) Navigation and precise positioning includes topics in geodetic
astronomy and coordinate conversions. (b) Advanced topics in po-
tential theory and physical geodesy. (c) Gravity measurement and
reduction techniques, includes absolute and relative gravity meas-
urements, pendulum and gravimeter methods, and methods of ana-
lysis of observational data. (d) Special topics in satellite geodesy.
May be repeated for credit. Pre: consent of instructor. Hrs. arr.

799 Directed Research (v.) Staff
800 Thesis Research (v.) Staff

HISTORY (Hist)

HONORS PROGRAM
Honors Courses (Hon)
493 Senior Honor Thesis (2) J. Linn
Preparation of research paper under individual faculty supervision.
Required for graduation with honors. Hrs. arr.

494 Senior Honor Thesis (2) J. Linn
Preparation of research paper under individual faculty supervision.
Required for graduation with honors. Hrs. arr.
Special Studies (SS)

311 Independent Study Tutorial (v.)  R. Clopton
Pre-arranged independent study, under the tutorial system, of selected topics not necessarily covered in standard course work. Comprising a full-session load, course is limited to sophomores and above not on probation. Pre: permission of Liberal Studies Coordinator and appropriate faculty adviser. Hrs. arr.

312 Independent Study Tutorial (v.)  R. Clopton
Pre-arranged independent study, under the tutorial system, of selected topics not necessarily covered in standard course work. Comprising a full-session load, course is limited to sophomores and above not on probation. Pre: permission of Liberal Studies Coordinator and appropriate faculty adviser. Hrs. arr.

HUMAN RESOURCES DEVELOPMENT

Food and Nutritional Sciences (FN)
499 Directed Reading & Research (v.)  Staff
699 Directed Reading & Research (v.)  Staff

Food Service Administration (FSA)
499 Directed Research (v.)  Staff
699 Directed Research (v.)  Staff

Nutrition (Nutr)
499 Directed Research (v.)  Staff
699 Directed Research (v.)  Staff
800 Thesis (v.)  Staff

INDO-PACIFIC LANGUAGES

General (IP)
690 Directed Reading (v.)  Staff
Directed reading of advanced texts written in a South Asian, Southeast Asian or Pacific language. Pre: consent of instructor.

Hawaiian (Haw)
102 Elementary Hawaiian (3)  A. Anthony
Continuation of 101; equivalent of second semester's work in academic year. Language lab practice required daily. Daily 8:45-10:00 plus laboratory

202 Intermediate Hawaiian (4)  J. Ward
Continuation of 201; equivalent of second semester's work in academic year. Language lab practice required daily. Daily 8:45-10:00 plus laboratory

Indonesian (Ind)
112 Intensive Intermediate Indonesian (6)  Staff, S. Dardjowidjojo
Intensive course equivalent to Intermediate Indonesian in academic year. Includes all four skills: listening, speaking, reading and writing. The 6-week course meets for a total of 150 hours with additional daily laboratory work required. Pre: 111 or equivalent. Daily 7:20-10:00; plus laboratory

404 Intensive Fourth Indonesian (6)  Staff, G. DeHeer
Intensive course equivalent to Fourth Level Indonesian in academic year. Sequential to the third level course; extensive reading and oral discussion based on advanced texts. Pre: 303 or equivalent. Daily 8:45-11:25

Tagalog (Tag)
112 Intensive Intermediate Tagalog (6)  V. de Guzman
Intensive course equivalent to Intermediate Tagalog in academic year. Includes all four skills: listening, speaking, reading and writing. The 6-week course meets for a total of 150 hours with additional daily laboratory work required. Pre: 111 or equivalent. Daily 7:20-10:00; 12:00-2:25 plus laboratory

INFORMATION SCIENCES (ISc)
491 Introduction to APL Programming (1)  C. Wall
Introductory APL programming taught mainly through the use of computer terminals in an interactive fashion. MWF 11:35-12:25

LIBRARY STUDIES (LS)
Registration in library studies courses requires the approval of the Dean of the Graduate School of Library Studies. Classes will meet on Registration Day.

610 Social Functions of Libraries (3)  S. 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 10:15-12:45 July 24-August 11

682 Reading Materials for Youth (3)  E. Hurd
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 1:00-3:30 July 24-August 11

LINGUISTICS (Ling)
200 Languages of the World (3)  M. L. Forman
A survey of the major languages and language families of the world, including brief characterization of their salient features, and attention to the numbers and distribution of their speakers. Pre: 102. Daily 8:45-10:00

320 General Linguistics (3)  R. A. Blust
Approaches, concepts, component areas of linguistics; its development as a science. Daily 10:10-11:25

650 Advanced Linguistic Analysis (3)  G. Lee

699 Directed Research (v.)  B. Bender
Pre: graduate standing; consent of instructor. Hrs. arr.
800 Thesis (v.)
MATHEMATICS (Math)

060 Intermediate Algebra (0)  D. F. Kibler
Elementary and intermediate algebra, emphasizing concepts of function, identity, equation. Equivalent to 3 credits.
Daily 8:45-10:00

100 Survey of Mathematics (3)  E. R. Spielvogel
(2 sections)
Selected topics designed to acquaint non-specialists with examples of mathematical reasoning.
Daily (1) 8:45-10:00 (Spielvogel)
(2) 10:10-11:25 (Spielvogel)

111 Introduction to Mathematics (3)  C. J. Allday, D. I. Koehler
(2 sections)
Study of concepts and properties of number systems. (Primarily for education majors.)
Daily (1) 8:45-10:00 (Koehler)
(2) 10:10-11:25 (Allday)

201 Finite Mathematics (3)  C. J. Allday
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)  J. C. Martin
First order equations, linear equations with constant coefficients. Laplace transform, systems of equations. Pre: 231 or consent of department.
Daily 10:10-11:25

371 Elementary Probability Theory (3)  A. B. Calica
Sets, discrete sample spaces, problems in combinatorial probability, conditional probability, random variables, mathematical expectations, moments, variance, study of the classical distributions (binomial, Poisson, normal, etc.), applications. Pre: one semester of calculus or consent of instructor.
Daily 11:35-12:50

402 Partial Differential Equations (3)  D. F. Kibler
Daily 7:20-8:35

METEOROLOGY (Met)

799 Directed Research (v.)  C. S. Ramage
Hrs. arr.

MICROBIOLOGY (Micro)

699 Directed Research (v.)  A. Benedict
Selected problems in microbiology. Pre: consent of instructor.
800 Thesis Research (v.)  Staff

MUSIC (Mus)

160 Introduction to Music Literature (3)  R. Vaught
Elements, styles and forms of music, from listener's point of view.
Daily 8:45-10:00

170 Music in World Culture (3)  T. Solis
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 8:45-10:00

470 Art Music of Asia (2)  W. Feltz
Major genres and representative works. Performance practices and compositional principles. Pre: either 160, 170, 180, 181, or consent of instructor.
Daily 10:10-11:00

Applied Music

116 First-Level Secondary Piano (1)  E. Shipwright
Continuation of 115.
Daily 9:10-10:00

125 Elementary Piano Class (1)  E. Shipwright
Basic principles of piano performance. Relevant problems in piano literature at elementary level.
Daily 10:10-11:00

126 Elementary Piano Class (1)  E. Shipwright
Continuation of 125.
Daily 11:35-12:25

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

OCEANOGRAPHY (Ocean)

699 Directed Research (v.)  K. Chave
Pre: consent of instructor.
800 Thesis Research (v.)  Staff
Pre: consent of adviser.

PACIFIC ISLANDS PROGRAM (PIP)

699 Directed Research (v.)  N. Meller
800 Thesis (v.)

PHARMACOLOGY (Pharm)

699 Directed Research (v.)  B. Lum
800 Thesis (v.)

PHILOSOPHY (Phil)

100 Introduction to Philosophy (3)  F. L. Bender
Problems, methods, fields of philosophy.
Daily 11:35-12:50

201 History of Philosophy II (3)  F. L. Bender
Western philosophy from Renaissance to present. Desirable preparation: 200.
Daily 10:10-11:25

210 Introduction to Logic (3)  E. D. Harter
Principles of modern deductive logic.
Daily 8:45-10:00
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>405</td>
<td>American Philosophy (3)</td>
<td>C. Y. Cheng</td>
</tr>
<tr>
<td></td>
<td>Major trends in development of American philosophy in relation to socio-political background and influence. Daily 8:45-10:00</td>
<td></td>
</tr>
<tr>
<td>460</td>
<td>Buddhist Philosophy (3)</td>
<td>K. N. Upadhyaya</td>
</tr>
<tr>
<td></td>
<td>Survey of basic schools and tenets of Buddhist philosophy. Daily 10:10-11:25</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>PHYSICS (Phys)</strong></td>
<td></td>
</tr>
<tr>
<td>152</td>
<td>College Physics (3)</td>
<td>C. Hayes</td>
</tr>
<tr>
<td></td>
<td>Fundamental laws, principles, methods. Pre: credit or registration in Math 134. 151 is prerequisite to 152. Daily 8:45-10:35</td>
<td></td>
</tr>
<tr>
<td>154</td>
<td>College Physics Laboratory (1)</td>
<td>D. Hyder</td>
</tr>
<tr>
<td></td>
<td>Continuation of 152. Pre: credit or registration in 152. Offered only as credit/no credit. (1) MTh 8:45-11:35 (Hyder) (2) WF 8:45-11:35 (Hyder)</td>
<td></td>
</tr>
<tr>
<td>170</td>
<td>General Physics I (4)</td>
<td>J. Holmes</td>
</tr>
<tr>
<td></td>
<td>Mechanics of particles and rigid bodies; wave motion; thermodynamics and kinetic theory. Pre: credit or registration in Math 206. Daily 8:45-10:00</td>
<td></td>
</tr>
<tr>
<td>171</td>
<td>General Physics I Laboratory (1)</td>
<td>D. Nelson</td>
</tr>
<tr>
<td></td>
<td>Experimental analysis in mechanics and thermodynamics. Pre: credit or registration in 170. MTh 12:30-3:40</td>
<td></td>
</tr>
<tr>
<td>799</td>
<td>Directed Research (v.)</td>
<td>J. Holmes</td>
</tr>
<tr>
<td></td>
<td>Hrs. arr.</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>Thesis (v.)</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>Hrs. arr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>PHYSIOLOGY (Physl)</strong></td>
<td></td>
</tr>
<tr>
<td>699</td>
<td>Directed Research (v.)</td>
<td>S. Hong</td>
</tr>
<tr>
<td></td>
<td>Hrs. arr.</td>
<td>Staff</td>
</tr>
<tr>
<td>800</td>
<td>Thesis Research (v.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>POLITICAL SCIENCE (Pol Sc)</strong></td>
<td></td>
</tr>
<tr>
<td>110</td>
<td>Introduction to Politics (3)</td>
<td>H. Karlel</td>
</tr>
<tr>
<td></td>
<td>A discussion of the current crisis of public authority. Political institutions, ideologies, and modes of political science as responses to the crisis. Lectures and discussions. Daily 8:45-10:00</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>Democratic Prospects (3)</td>
<td>H. Karlel</td>
</tr>
<tr>
<td></td>
<td>Can we change our minds and see the promise of a democratic politics? Is it possible to realize a new politics and a new range of consciousness? Discussion of the ways changed perceptions can lead us to use unused potentials in political life. Daily 10:10-11:25</td>
<td></td>
</tr>
<tr>
<td>305</td>
<td>The Politics of Experience (3)</td>
<td>J. Wilson</td>
</tr>
<tr>
<td></td>
<td>An informal examination of the grounds of political knowledge and political action. Students will be encouraged to engage in independent reading, research and activity which broaden and deepen their personal engagement with politics. Daily 10:10-11:25</td>
<td></td>
</tr>
<tr>
<td>320</td>
<td>Ecological Crisis and the Global System (3)</td>
<td>P. King</td>
</tr>
<tr>
<td></td>
<td>Daily 11:35-12:50</td>
<td></td>
</tr>
<tr>
<td>333</td>
<td>American Government (3)</td>
<td>A. Temple</td>
</tr>
<tr>
<td></td>
<td>Organization and functioning of American political system. Daily 1:10-2:25</td>
<td></td>
</tr>
<tr>
<td>335</td>
<td>Social and Political Consequences of Mass Media (3)</td>
<td>D. Weller</td>
</tr>
<tr>
<td></td>
<td>One general aim of the course will be to introduce the student to the overall concept of communication as it applies to a non-human, inter-personal (human), and &quot;mass&quot; level, and to open a door to the extensive body of literature in the area. Daily 1:10-2:25</td>
<td></td>
</tr>
<tr>
<td>340</td>
<td>Southeast Asian Societies and Polities (3)</td>
<td>B. Kerkvliet</td>
</tr>
<tr>
<td></td>
<td>A close examination of one important area—Indochina—to understand the rich variety of cultures, societies, and politics there and then, in this context, examination of the wars and revolutions in Laos, Cambodia, and Vietnam. Daily 7:20-8:35</td>
<td></td>
</tr>
<tr>
<td>345</td>
<td>Revolutions and Rebellions (3)</td>
<td>B. Kerkvliet</td>
</tr>
<tr>
<td></td>
<td>Causes and consequences of peasant rebellions and revolutions, both failures and successes, in China, Vietnam, the Philippines, Mexico, and others in Asia and Latin America. Daily 10:10-11:25</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>Legislative Decision-Making (3)</td>
<td>A. Temple</td>
</tr>
<tr>
<td></td>
<td>The study of federal, state, and local legislatures and their roles in our political and social systems. Attempts will be made to relate empirical behavior data to broad theoretical questions. Recruitment, functions, perceptions, roles, representation, and evaluation of legislatures and legislative actors will be considered. Daily 2:45-3:50</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>PSYCHOLOGY (Psy)</strong></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>Survey of Psychology (3)</td>
<td>J. Carlson</td>
</tr>
<tr>
<td></td>
<td>Principles of human behavior, individual differences, motivation, emotion, perception, learning. Daily 8:45-10:00</td>
<td></td>
</tr>
<tr>
<td>110</td>
<td>Psychology of Adjustment (3)</td>
<td>S. MacDonald</td>
</tr>
<tr>
<td>113</td>
<td>Statistical Techniques (3)</td>
<td>F. Ramos</td>
</tr>
<tr>
<td></td>
<td>Frequency distributions; graphic methods, central tendency; variability; correlations; reliability; tests of significance. Pre: two years of high school algebra or equivalent. Daily 7:20-8:35</td>
<td></td>
</tr>
<tr>
<td>214</td>
<td>Learning and Motivation (3)</td>
<td>J. Carlson</td>
</tr>
<tr>
<td></td>
<td>Major conditions influencing learning and forgetting; the role of practice, reward, motivation, drive and emotion, theoretical interpretations of learning and motivation. Pre: 112. Daily 10:10-11:25</td>
<td></td>
</tr>
<tr>
<td>216</td>
<td>Individual Differences and Measurement (3)</td>
<td>L. Becker</td>
</tr>
<tr>
<td></td>
<td>Individual differences in personality, aptitude, intelligence; construction, validation, administration of tests, interpretation of scores. Pre: 113. Daily 8:45-10:00</td>
<td></td>
</tr>
</tbody>
</table>
317 Physiological Psychology (3)  
R. Fial  
Psychological basis of vision, audition, motivation, emotion, learning.  
Daily 11:35-12:50

320 Developmental Psychology (3)  
G. Tanabe  
Emotional, mental, physical, social development from infancy to adulthood; interests and abilities at different age levels. Pre: 100.  
Daily 11:35-12:50

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

322 Social Psychology (3)  
H. Gerard  
Interpersonal relations; social attitudes; group dynamics; intergroup relations; class and cultural influences. Pre: 100.  
Daily 8:45-10:00

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

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

491 Teaching Psychology (v.)  
Staff  
Supervised experience in teaching psychology. Pre: consent of instructor and department chairman.  
Hrs. arr.

499 Directed Reading or Research (v.)  
R. Johnson  
Pre: consent of instructor and department chairman.

699 Directed Reading or Research (v.)  
R. Johnson  
Pre: consent of instructor and department chairman.

700(7) Seminar: Social (3)  
H. Gerard  
Current research in social psychology.  
Daily 10:10-11:35

800 Thesis or Dissertation Research (v.)  
Staff

PUBLIC HEALTH (PH)

791 Advanced Public Health Practice (3)  
(15 sections)
Observation, study, additional practical work in student’s area of emphasis. Open to public health degree candidates only.  
Hrs. arr.

792(100) Seminar in Public Health  
Population Studies II (v.)  
R. Pion  
Advanced seminar in selected public health topics. Pre: consent of instructor.  
Hrs. arr.

799 Directed Reading/Research (v.)  
Staff  
(15 sections)
Pre: consent of instructor.  
Hrs. arr.

RELIGION (Rel)

150 Introduction to World’s Major Religions (3)  
A. Bloom  
Introduction to the world’s major religions—Hinduism, Buddhism, Shinto, Confucianism, Taoism, Judaism, Christianity, Islam.  
Daily 8:45-10:00

151 Religion and the Meaning of Existence (3)  
M. Aoki  
Introduction to basic ideas and issues of contemporary religious thought as related to the question “What is the meaning of existence?”  
Daily 10:10-11:25

SOCIAL WORK (SW)

320 Social Work with Juvenile Offenders (3)  
J. Nagoshi  
The significance of crime and delinquency in American life and our general potential for programs of prevention and control; focus on problems, issues and recent developments; juvenile and criminal justice systems; new approaches and techniques in prevention and treatment.  
Daily 10:10-11:25

761 Second Year Practicum (3)  
J. Krisberg  
Instruction in the field is continued. The practicum of the second year provides an opportunity for the student to test out the concepts, principles and theories which he has acquired and to develop his own individual manner of using them in actual practice.  
Hrs. arr.

796 Directed Individual Study in  
Substantive Field (v.)  
Staff
Students, on the basis of special interest, will select a faculty member to work with on a problem for which planned individualized study is deemed advisable.  
Hrs. arr.

SOCIOLOGY (Soc)

Students should consult sociology departmental adviser and the current description of course offerings each semester.

100 Survey of General Sociology (3)  
R. Corwin  
Basic social relationships, social structures, norms, processes affecting social change.  
Daily 8:45-10:00

312 Survey of Society and Population (3)  
G. Yamamoto  
Probable causes and consequences of current world population growth rate; comparison of developed and underdeveloped countries; assessment of effectiveness of efforts to control rate of growth or size of populations. Population structure and dynamics as related to food resources, environment, and values.  
Daily 8:45-10:00
322(1) Survey of Formal Organization (3)  J. Seldin
A survey of the theories and empirical findings on formal organizations (e.g. bureaucracy). Emphasis will be placed on the relationship of these organizations (university, military, government, etc.) to the society.
Daily 10:35-12:50

322(2) Survey of Race Relations (3)  A. Higginbotham
A survey of the theories and empirical findings on race and ethnic relations. Emphasis will be placed on differentials in power and prestige as well as discrimination and racial conflict.
Daily 10:10-11:25

332 Survey of Sociology of Law (3)  A. Higginbotham
A survey of the theories and empirical findings on the relationship between law and society. Questions of how society and culture affect laws and the effect of law on social change will be discussed.
Daily 8:45-10:00

352(1) Survey of Sociology of Religion (3)  J. Seldin
A survey of the theories and empirical findings on the relationship between society and religious systems. Emphasis will be placed on religious cultures and the relationship between youth culture in modern society and religious mysticism.
Daily 2:35-3:50

352(2) Survey of People and Institutions of Japan (3)  G. Yamamoto
Brief survey of Japanese history pointing to origins of basic elements of contemporary Japanese society. Values, socialization and interpersonal relations, and family structure. Aspects of social structure undergoing change—social stratification, education, religion, political and economic organization.
Daily 11:35-12:50

412 Analysis of Urban Sociology (3)  R. Corwin
A survey of the theories and empirical findings on the growth and location of urban areas as well as the relationship between urban life and society in North America. Pre: 200 or consent of Instructor.
Daily 10:10-11:25

499 Directed Reading (v.)  G. Kassebaum
799 Directed Research (v.)  G. Kassebaum

SPEECH-COMMUNICATION (SpCom)

145 Interpersonal Speech-Communication (3)  G. Bond, (2 sections)  K. Nishiyama
Introduction to speech-communication theory through participation in interpersonal communication activities.
Daily (1) 7:20-8:35 (Bond)
(2) 10:10-11:25 (Nishiyama)

231 Reading Aloud (3)  V. Larson
Principles of interpretative reading. Practice in textual analysis and in transmitting intellectual and aesthetic content of literature.
Daily 8:45-10:00

601 History of Theory and Trends in Speech-Communication Research (3)
Examination of major theories and hypotheses about speech-communication which have accompanied trends in research. Study of current research methods and their application to contemporary problems. Pre: 406 or consent of instructor.
TTh 12:30-4:00

784 Seminar in Intercultural Speech-Communication (3)
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: 384 or at least one course in cultural anthropology, or permission of instructor.
MWF 1:00-3:00

800 Thesis (v.)  Staff

ZOOLGY (Zool)

499 Directed Reading and Research (v.)  F. Kamemoto
Limited to senior majors with 2.7 grade-point ratio or 3.0 grade-point ratio in zoology.
Hrs. arr.

699 Directed Research (v.)  F. Kamemoto
Directed research and reading in various fields of zoology.
Hrs. arr.