Minor Program Requirements:

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science Engineering 60</td>
<td>4</td>
</tr>
<tr>
<td>Upper division Computer Science Engineering courses</td>
<td>20</td>
</tr>
</tbody>
</table>

Select any upper-division Computer Science Engineering courses. A single approved course of 3 or 4 units from Computer Science and Engineering 192 or 199 is allowed. Note: Computer Science Engineering 60 has a prerequisite chain of 20, 30, 40, 160A or 161A.

Graduate Study. See Graduate Studies, on page 111.

Computer Science (A Graduate Group)

Kwan-Liu Ma, Ph.D., Chairperson of the Group Office. 2063 Kemper Hall 530-752-7004; gradinfo@cs.ucdavis.edu; http://www.cs.ucdavis.edu

Faculty
Venkatesh Akella, Ph.D., Professor (Electrical and Computer Engineering)
Nina Amente, Ph.D., Professor (Computer Science)
Zhaojun Bai, Ph.D., Professor (Computer Science)
Matthew Bishop, Ph.D., Associate Professor (Computer Science)
Heman Bhangava, Ph.D., Professor (Computer Science)
Hao Chen, Ph.D., Assistant Professor (Computer Science)
Harry Cheng, Ph.D., Professor (Mechanical and Aerospace Engineering)
R. Holland Cheng, Ph.D., Professor (Molecular and Cellular Biology)
Chen-Nee Chuah, Ph.D., Assistant Professor (Electrical and Computer Engineering)
James P. Crutchfield, Ph.D., Professor (Physics)
Ian Davidson, Ph.D., Associate Professor (Computer Science)
Jesus M. D’Souza, Ph.D., Assistant Professor (Mechanical and Aerospace Engineering)
Raisa M. D’Souza, Ph.D., Assistant Professor (Mechanical and Aerospace Engineering)
Jesus Delmerico, Ph.D., Professor (Mathematics)
Prem Devanbu, Ph.D., Associate Professor (Computer Science)
Matthew Farners, Ph.D., Professor (Computer Science)
Robert Faris, Ph.D., Assistant Professor (Sociology)
Vladimir Filkov, Ph.D., Assistant Professor (Computer Science)
Matthew Franklin, Ph.D., Professor (Computer Science)
Dipak Ghosal, Ph.D., Professor (Computer Science)
Todd J. Green, Ph.D., Assistant Professor (Computer Science)
Daniel Gusfield, Ph.D., Professor (Computer Science)
Francois Gygi, Ph.D., Professor (Computer Science)
Bernard Hamann, Ph.D., Professor (Computer Science)
Michael Hogarth, Ph.D., Associate Professor (School of Medicine)
Greta Hsu, Ph.D., Assistant Professor (Graduate School of Management)
Sanjay Joshi, Ph.D., Assistant Professor (Mechanical and Aerospace Engineering)
Kenneth Joy, Ph.D., Professor (Computer Science)
Louise Kellogg, Ph.D., Professor (Geology)

Patrice Koehl, Ph.D., Professor (Computer Science)
Mathias Koenne, Ph.D., Assistant Professor (Mathematics)
Karl Levit, Ph.D., Professor (Computer Science)
Xin Liu, Ph.D., Associate Professor (Computer Science)
Kwan-Liu Ma, Ph.D., Professor (Computer Science)
Charles Marot, Ph.D., Professor (Computer Science)
Norman Matloff, Ph.D., Professor (Computer Science)
Nelson Max, Ph.D., Professor (Computer Science)
E.O. Mullin, Ph.D., Professor (Mathematics)
Deb Niemeier, Ph.D., Professor (Civil and Environmental Engineering)
Prasath Madhupatra, Ph.D., Professor, Chair (Computer Science)
Biswaath Mukherjee, Ph.D., Professor (Computer Science) Distinguished Graduate Mentoring Award
Michael Neff, Ph.D., Assistant Professor (Computer Science)
Ronald Olson, Ph.D., Professor (Computer Science)
John Owens, Ph.D., Assistant Professor (Electrical and Computer Engineering)
Raju Pandey, Ph.D., Associate Professor (Computer Science)
Sean Peisert, Ph.D., Assistant Adjunct Professor (Computer Science)
Bahram Ravani, Ph.D., Professor (Mechanical and Aerospace Engineering)
Robert Redinbo, Ph.D., Professor (Electrical and Computer Engineering)
David Rocke, Ph.D., Professor (Applied Science)
Garry Rodrigue, Ph.D., Professor (Applied Science)
Phillip Rogaway, Ph.D., Professor (Computer Science)
Kenneth Shackel, Ph.D., Professor (Plant Sciences)
David Slaughter, Ph.D., Professor (Biological and Agricultural Engineering)
Oliver Staadt, Ph.D., Assistant Professor (Computer Science)
Hennig Stalhberg, Ph.D., Assistant Professor (Molecular and Cellular Biology)
Zhendong Su, Ph.D., Associate Professor (Computer Science)
Illias Tagkopoulos, Ph.D., Assistant Professor (Computer Science)
Susan Ustin, Ph.D., Professor (Land, Air and Water Resources)
V. Rao Vemuri, Ph.D., Professor (Applied Science)
S. Felix Wu, Ph.D., Professor (Computer Science)
Rao Vemuri, Ph.D., Professor (Applied Science)
Kent Wilken, Ph.D., Associate Professor (Electrical and Computer Engineering)
David Woodruff, Ph.D., Professor (Graduate School of Management)
Catherine Yang, Ph.D., Assistant Professor (Graduate School of Management)
Ben Yao, Ph.D., Professor (Electrical and Computer Engineering)

Emeriti Faculty
Ralph Algazi, Ph.D., Professor Emeritus
Meera Blattner, Ph.D., Professor Emeritus
S.L. Hakimi, Ph.D., Professor Emeritus
Peter Linz, Ph.D., Professor Emeritus
Manfred Kuschtka, Ph.D., Professor Emeritus
Michael Soderstrand, Ph.D., Professor Emeritus
Donald Topkis, Ph.D., Professor Emeritus
Richard Walters, Ph.D., Professor Emeritus

Affiliated Faculty
Owen Carmichael, Ph.D., Assistant Professor (Med: Neurology)

Graduate Study. The Graduate Group in Computer Science offers programs of study leading to the M.S. and Ph.D. degrees in Computer Science. The varied nature of the faculty brings a wide variety of research interests to the program. Research strengths lie in algorithms, computational biology, computer architecture, computer graphics and visualization, database systems, computer security and cryptography, computer networks, program specifications and...
Graduate
299. Research (1-12)  
(S/U grading only)

Professional
396. Teaching Assistant Training Practicum (1-4)
Prerequisite: graduate standing. May be repeated for credit.  
(S/U grading only).—I, II, III. (I, II, III)

Contemporary Leadership

(College of Agricultural and Environmental Sciences)  
The Science and Society Program offers a minor in Contemporary Leadership, open to all undergraduates  
regardless of major. The minor provides a broad overview of leadership theory and practice, and  
engages students in critical thinking, self-reflection, problem solving and multicultural education.  
Students should contact the minor adviser for course selection and plan approval.

Consult advisors often to insure timely enrollment in Science and Society 192 and 190X as courses with  
fever than ten students will not be taught.

Minor Program Requirements:  

<table>
<thead>
<tr>
<th>UNITs</th>
<th>Contemporary Leadership</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Leadership Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Science and Society 130</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Science and Society 192</td>
<td>4</td>
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<tr>
<td></td>
<td>Preparatory Subject Matter</td>
<td>4</td>
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<tr>
<td></td>
<td>Students are required to complete four units from each of the following four categories. All courses are four units unless specified in parentheses:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Communication, Interpersonal Relationships and Human Psychology 139AN, Communication 134, 135, 136, Community and Regional Development 172, 174, Linguistics 163, Psychology 151, Sociology 126, 128, University Writing Program 104 (A,F)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Organization Structure and Cultures: American Studies 125, Anthropology 105, 123BN, Community and Regional Development 152, 154, 158, 164, Sociology 30A (J), 156, 180A, 180B, 183, 185, 186</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Multiculturalism, the Global Community and Social Change: American Studies 133, 153, 156, Community and Regional Development 176, 179, History 173, 178A, 178B, Native American Studies 134, Political Science 124, 125, 130, Texts and Clothing 174</td>
<td></td>
</tr>
</tbody>
</table>

Graduate Adviser.

Consult Critical Theory Program office.

Courses in Critical Theory (CRI)  

Upper Division  

101. Introduction to Critical Theoretical Approaches to Literature and Culture (4)  
Lecture/discussion—3 hours, term paper. Prerequisite: one upper division literature course or consent of instructor. Introduction to critical theory and its use for interpreting literary texts, film, and media forms in our present global culture. (Same course as Comparative Literature 141.) GE credit: ArtHum, Wrt | AH, WC, WE.—III. (III.)

Graduate  

200A. Approaches to Critical Theory (4)  
Seminar—3 hours; term paper. Prerequisite: graduate standing in a participating program. Restricted to Graduate students. Critical overview of modern theoretical texts; e.g., semiotics, hermeneutics, deconstruction, and social and cultural critique, feminist theory, psychoanalysis.  

200B. Problems in Critical Theory (4)  
Seminar—3 hours; term paper. Restricted to Graduate students. Focused study of a particular critical theoretical approach, school or perspective. Topics may include but are not limited to: critical approaches to the study of literature, culture, film, historiography, visual culture, the body, and aesthetic.  

Kathleen Frederickson, Ph.D.

Graduate Study. The program in Critical Theory offers study and research leading to the Ph.D. with a designated emphasis in Critical Theory. The program provides theoretical emphasis and interdisciplinary perspective to students already preparing for the Ph.D. in one of 14 participating graduate programs. (Anthropology, Communication, Cultural Studies, Education, English, French, German, History, Music, Psychology, Sociology, Spanish, Study of Religion, and Performance Studies.) Students complete all requirements for the Ph.D., including the dissertation, in one of the participating departments. Minimum coursework for the Critical Theory Designated Emphasis consists of four courses. The first three of these, Critical Theory 200A, 200B, and 200C are taught by affiliated faculty, with 200A normally being taken first. For the fourth course, students have the option of taking another section of Critical Theory 200B or an approved course from any affiliated department.

Graduate Adviser. Consult Critical Theory Program office.

Quarter Offered: I—Fall, II—Winter, III—Spring, IV—Summer; 2015-2016 offering in parentheses
Pre-Fall 2011 General Education (GE): ArtHum—Arts and Humanities; SciEng—Science and Engineering; SocSci—Social Sciences; Div—Domestic Diversity; Wrt—Writing Experience
Fall 2011 and on Revised General Education (GE): AH—Arts and Humanities; SE—Science and Engineering; SS—Social Sciences;
ACGH—American Cultures; DD—Domestic Diversity; OL—Oral Skills; QL—Quantitative; SL—Scientific; VL—Visual; WC—World Cultures; Wret—Writing Experience

Conservation Biology

See Ecology (A Graduate Group), on page 229; Environmental Biology and Management, on page 293; and Wildlife, Fish, and Conservation Biology, on page 344.

Consumer Science

[College of Agricultural and Environmental Sciences]

Faculty. See under the Division of Textiles and Clothing, on page 544.

Major Programs. The Consumer Food Science option under the Food Science major is a related program. See also Food Science and Technology, on page 511, Nutrition, on page 544, and Textiles and Clothing, on page 525.

Graduate Study. For graduate study, see Graduate Studies, on page 111.

Courses in Consumer Science (CNS)

Questions pertaining to the following courses should be directed to the Division of Textiles and Clothing Advising office in 129 Everson Hall.

Lower Division  

92. Internship in Consumer Science (1-12)  
Internship—3-36 hours. Prerequisite: consent of instructor. Internship on and off campus in a consumer science related area. (P/NP grading only)

Upper Division  

100. Consumer Behavior (3)  
Lecture—3 hours. Prerequisite: preparation in areas of psychology or sociology and economics recommended. Provides a set of behavioral concepts and theories useful in understanding consumer behavior on the part of the individual, business, and social organizations. Conceptual models to help guide and understand consumer research will be presented. GE credit: SocSci, Div, Wrt | SS, WE.

192. Internship in Consumer Science (1-12)  
Internship—3-36 hours. Prerequisite: completion of a minimum of 84 units; consent of instructor. Internship on and off campus in a consumer science related area. (P/NP grading only)

198. Directed Group Study (1-5)  
(P/NP grading only)

199. Special Study for Advanced Undergraduates (1-5)  
(P/NP grading only)