

**Total Units for the Major ..... 98-108**

**Major Advisers.** N. Matloff, M. Farrens, M. Franklin, N. Amenta, R. Olsson, P. Rogaway, D. Ghosal

**Minor Program Requirements:**

UNITS

**Computer Science ..... 24**

Computer Science Engineering 50 ..... 4  
Upper division Computer Science  
Engineering courses ..... 20  
elect from Computer Science Engineering  
120, 122A, 122B, 130, 140A, 140B,  
142, 145, 150, 152A, 152B, 152C, 153,  
154A, 154B, 156, 158, 160, 163, 165A,  
165B, 170, 175, 177, 178, 189A-L,  
maximum of 3 units from approved 192 or  
199.

**Graduate Study.** See [Graduate Studies](#), on page 104.

## Computer Science (A Graduate Group)

Charles Martel, Ph.D., Chairperson of the Group

**Group Office.** 2063 Engineering II (Department of Computer Science)  
(530) 752-7004; [gradinfocs@ucdavis.edu](mailto:gradinfocs@ucdavis.edu);  
<http://www.cs.ucdavis.edu>

**Faculty**

Demet Aksoy, Ph.D., Assistant Professor  
(Computer Science)  
Nina Amenta, Ph.D., Associate Professor  
(Computer Science)  
Zhaojun Bai, Ph.D., Professor (Computer Science)  
Matthew Bishop, Ph.D., Associate Professor  
(Computer Science)  
Hemant Bhargava, Ph.D., Professor  
(Computer Science)  
John Bruno, Ph.D., Professor (Computer Science)  
T.S. Chang, Ph.D., Professor  
(Electrical and Computer Engineering)  
Hao Chen, Ph.D., Assistant Professor  
(Computer Science)  
Harry Cheng, Ph.D., Professor  
(Mechanical and Aeronautical Engineering)  
R. Holland Cheng, Ph.D., Professor  
(Molecular and Cellular Biology)  
Frederic Chong, Ph.D., Associate Professor  
(Computer Science)  
Chen-Nee Chuah, Ph.D., Assistant Professor  
(Electrical and Computer Engineering)  
Nello Cristianini, Ph.D., Associate Professor  
(Statistics)  
Jesus M. D'Souza, Ph.D., Assistant Professor  
(Mechanical and Aeronautical Engineering)  
Jesus DeLoera, Ph.D., Professor  
(Mathematics)  
Prem Devanbu, Ph.D., Associate Professor  
(Computer Science)  
Matthew Farrens, Ph.D., Professor  
(Computer Science)  
Vladimir Filkov, Ph.D., Assistant Professor  
(Computer Science)  
Gary Ford, Ph.D., Professor  
(Electrical and Computer Engineering)  
Andrew Frank, Ph.D., Professor  
(Mechanical and Aeronautical Engineering)  
Matthew Franklin, Ph.D., Professor  
(Computer Science)  
Michael Gertz, Ph.D., Associate Professor  
(Computer Science)  
Dipak Ghosal, Ph.D., Professor  
(Computer Science)  
Daniel Gusfield, Ph.D., Professor (Computer Science)  
Bernd Hamann, Ph.D., Professor (Computer Science)  
Michael Hogarth, Ph.D., Assistant Professor  
(School of Medicine)

Mont Hubbard, Ph.D., Professor  
(Mechanical and Aeronautical Engineering)  
Sanjay Joshi, Ph.D., Assistant Professor  
(Mechanical and Aeronautical Engineering)  
Kenneth Joy, Ph.D., Professor (Computer Science)  
Patrice Koehl, Ph.D., Associate Professor  
(Computer Science)  
Karl Levitt, Ph.D., Professor (Computer Science)  
Xin Liu, Ph.D., Assistant Professor  
(Computer Science)  
Kwan-Liu Ma, Ph.D., Professor  
(Computer Science)  
Bertram Ludaescher, Ph.D., Associate Professor  
(Computer Science)  
Charles Martel, Ph.D., Professor (Computer Science)  
Norman Matloff, Ph.D., Professor  
(Computer Science)  
Nelson Max, Ph.D., Professor (Applied Science)  
E.O. Milton, Ph.D., Professor (Mathematics)  
Deb Niemeier, Ph.D., Professor  
(Civil and Environmental Engineering)  
Prasant Mohapatra, Ph.D., Associate Professor  
(Computer Science)  
Biswanath Mukherjee, Ph.D., Professor (Computer Science) Distinguished Graduate Mentoring Award  
Vojin G. Oklobdzija, Ph.D., Professor  
(Electrical and Computer Engineering)  
Ronald Olsson, Ph.D., Professor (Computer Science)  
John Owens, Ph.D., Assistant Professor  
(Electrical and Computer Engineering)  
Raju Pandey, Ph.D., Associate Professor  
(Computer Science)  
Robert Redinbo, Ph.D., Professor  
(Electrical and Computer Engineering)  
David Roche, 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)  
Henning Stahlberg, Ph.D., Assistant Professor  
(Molecular and Cellular Biology)  
Susan Ustin, Ph.D., Professor  
(Land, Air, and Water Resources)  
S. Felix Wu, Ph.D., Associate Professor  
(Computer Science)  
Rao Vemuri, Ph.D., Professor (Applied Science)  
Shih-Ho Wang, Ph.D., Professor  
(Electrical and Computer Engineering)  
Kent Wilken, Ph.D., Associate Professor  
(Electrical and Computer Engineering)  
David Woodruff, Ph.D., Professor  
(Graduate School of Management)  
Felix Wu, Ph.D., Associate Professor  
(Computer Science)  
Catherine Yang, Ph.D., Assistant Professor  
(Graduate School of Management)  
Peter Yellowlees, Ph.D., Professor  
(School of Medicine)  
Ben Yoo, Ph.D., Professor  
(Electrical and Computer Engineering)

**Emeriti Faculty**

Ralph Algazzi, Ph.D., Professor Emeritus  
Meera Blattner, Ph.D., Professor Emeritus  
S.L. Hakimi, Ph.D., Professor Emeritus  
Peter Linz, Ph.D., Professor Emeritus  
Manfred Ruschitzka, 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., Visiting Assistant  
Professor (Med Neurology)  
Farid Dowl, Ph.D., Adjunct Associate Professor  
(Applied Science)

**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 verification, programming languages and compilers, parallel and distributed systems, scientific computation, and software engineering. Interdisciplinary research in computer science is encouraged.

**Preparation.** Normal preparation for the program is a bachelor's degree in either computer science or in a closely related field (such as electrical engineering or mathematics, with substantial course work in computer science). Applications are also considered from students with outstanding records in other disciplines. M.S. students may either complete a thesis or pass a comprehensive examination. Ph.D. students must pass a qualifying oral examination and complete a dissertation demonstrating original research in an area approved by the Graduate Group.

**Graduate Advisers.** H. Chen, P. Devanbu, M. Farrens, D. Ghosal, K. Ma, P. Rogaway,

## Conservation Biology

See [Ecology \(A Graduate Group\)](#), on page 209; [Environmental Biology and Management](#), on page 274; and [Wildlife, Fish, and Conservation Biology](#), on page 516.

## Consumer Science

(College of Agricultural and Environmental Sciences)

**Faculty.** See under the Division of [Textiles and Clothing](#), on page 492.

**Major Programs.** The Consumer Food Science option under the Food Science major is a related program. See also [Food Science and Technology](#), on page 295, [Nutrition](#), on page 427, and [Textiles and Clothing](#), on page 492.

**Graduate Study.** For graduate study, see [Graduate Studies](#), on page 104.

### 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 Course****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 Courses****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.

**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.)