

Professional

390. Teaching Comparative Literature in College (4)

Lecture—2 hours; discussion—2 hours. Prerequisite: appointment as a Comparative Literature Associate Instructor or consent of instructor. Restricted to graduate students. Discussion of the theory and practice of teaching composition at the college level in a department of comparative literature in relation to the major cultural and social developments and with specific application to the introductory courses 1, 2, 3, 4. (S/U grading only.)—F, W, S. (F, W, S.)

392. Teaching Internship in Comparative Literature (2)

Discussion—2 hours. Restricted to graduate students. Regular consultations between the student instructor teaching Comparative Literature courses and a supervisor. Specifically designed for first-time TAs in COM 5, 6, 7, and 10. Instruction in the teaching of writing in a literature course, grading of papers, leading discussions. (S/U grading only.)—F, W, S. (F, W, S.)

396. Teaching Assistant Training Practicum (1-4)

Prerequisite: graduate standing. May be repeated for credit. (S/U grading only.)

Computer Science

See [Computer Science](#), on page 230; [Computer Science \(A Graduate Group\)](#), on page 230; [Engineering: Computer Science](#), on page 288; and [Engineering: Electrical and Computer Engineering](#), on page 295.

Computer Science

(College of Letters and Science)

Nina Amenta, Ph.D., Chairperson of the Department
Department Office. 2063 Kemper Hall
 530-752-7004; <http://www.cs.ucdavis.edu>

Faculty. For complete faculty listing, please see [Engineering: Computer Science](#), on page 288.

The Major Program

The Department of Computer Science administers two majors: Computer Science and Engineering (CSE), in the College of Engineering, and Computer Science (CS), in the College of Letters and Science. It also administers two minors: Computer Science, in the College of Letters and Science, and Computational Biology, in the College of Engineering. For information on the Computer Science and Engineering curriculum and the minor in Computational Biology, see [Engineering: Computer Science](#), on page 288.

The primary differences between the CSE and CS majors are the extent of hardware coverage and curricular flexibility. The CSE major develops a solid understanding of the entire machine, including hands-on experience with its hardware components. The CS major teaches some hardware, at the digital design level, on simulators. The CSE major has fewer free electives. The CS major's more generous electives make it easier to complete a minor or double major.

Students in the CS major receive a solid grounding in the fundamentals of computer languages, operating systems, computer architecture, and the mathematical abstractions underpinning computer science. Students are prepared for both industry and post-graduate study.

B.S. Major Requirements:

UNITS

Preparatory Subject Matter50-55

Mathematics 21A-21B-21C; 22A or 67 15-16
 Computer Science Engineering 20, 30, 40, 60 16
 Computer Science Engineering 50 or Electrical and Computer Engineering 70 ... 4
 One series from the following four 15-19
 (a) Chemistry 2A-2B-2C
 (b) Chemistry 2A-2B and Biological Sciences 2A
 (c) Chemistry 2AH-2BH-2CH
 (d) Physics 9A-9B-9C and Mathematics 21D

Depth Subject Matter51-54

Computer Science Engineering 122A, 120 or 122B, 140A, 150, 154A 20
 Computer Science Engineering 132 or Mathematics 135A or Statistics 131A 4
 Computer Science electives 27-30
 Minimum of 7 courses, including at least one mathematics or statistics course, from: Computer Science Engineering courses numbered between 120 and 189 inclusive; Computer Science and Engineering 193AB (counts as one); one approved course of 3 or 4 units from Computer Science and Engineering 192 or 199; Electrical and Computer Engineering 171, 172, 180A, 180B; Linguistics 177; Mathematics courses numbered between 100 and 189, excluding Mathematics 111; Statistics 131A, 131B. **No course can count as both a required course and a Computer Science elective.**

Total Units for the Major101-109

Major Advisers. M. Farrrens, V. Filkov, D. Ghosal, P. Koehl, N. Matloff, M. Neff, P. Koehl, P. Rogaway

Minor Program Requirements:

UNITS

Computer Science.....24

Computer Science Engineering 60 4
 Upper division Computer Science Engineering courses 20
 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 and Mathematics 16A or 21A.
Note. The minor program has prerequisites of Computer Science Engineering 20, 30, and 40, and Mathematics 16A or 21A.

Graduate Study. See [Graduate Studies](#), on page 120.

Computer Science (A Graduate Group)

Kwan-Liu Ma, Ph.D., Chairperson of the Group

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

Faculty

Venkatesh Akella, Ph.D., Professor
(Electrical and Computer Engineering)
 Nina Amenta, Ph.D., Professor, Chair
(Computer Science)
 Zhaojun Bai, Ph.D., Professor *(Computer Science)*
 Matthew Bishop, Ph.D., Professor
(Computer Science)
 Hemant Bhargava, Ph.D., Professor
(Graduate School of Management)

Hao Chen, Ph.D., Associate 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., Professor

(Computer Science)

Jesus M. D'Souza, Ph.D., Professor
(Mechanical and Aerospace Engineering)

Raissa M. D'Souza, Ph.D., Assistant Professor
(Mechanical and Aerospace Engineering)

Jesus DeLoera, Ph.D., Professor

(Mathematics)

Prem Devanbu, Ph.D., Professor

(Computer Science)

Matthew Farrrens, Ph.D., Professor

(Computer Science)

Robert Faris, Ph.D., Associate Professor *(Sociology)*

Vladimir Filkov, Ph.D., Associate 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)*

Bernd Hamann, Ph.D., Professor *(Computer Science)*

Michael Hogarth, Ph.D., Professor

(School of Medicine)

Greta Hsu, Ph.D., Associate Professor

(Graduate School of Management)

Sanjay Joshi, Ph.D., Associate Professor

(Mechanical and Aerospace Engineering)

Louise Kellogg, Ph.D., Professor *(Geology)*

Patrice Koehl, Ph.D., Professor *(Computer Science)*

Mathias Koeppel, Ph.D., Professor *(Mathematics)*

Karl Levitt, Ph.D., Professor *(Computer Science)*

Xin Liu, Ph.D., Associate Professor

(Computer Science)

Kwan-Liu Ma, Ph.D., Professor

(Computer Science)

Norman Matloff, Ph.D., Professor

(Computer Science)

Nelson Max, Ph.D., Professor *(Computer Science)*

Deb Niemeier, Ph.D., Professor

(Civil and Environmental Engineering)

Prasant Mohapatra, Ph.D., Professor

(Computer Science)

Biswanath Mukherjee, Ph.D., Professor *(Computer Science)*

Distinguished Graduate Mentoring Award

Michael Neff, Ph.D., Associate Professor

(Computer Science)

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)

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)

Zhendong Su, Ph.D., Associate Professor

(Computer Science)

Ilias Tagkopoulos, Ph.D., Associate Professor

(Computer Science)

Susan Ustin, Ph.D., Professor

(Land, Air and Water Resources)

S. Felix Wu, Ph.D., Professor *(Computer Science)*

Rao Vemuri, Ph.D., Professor *(Applied Science)*

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; WE=Writing Experience

Pre-Fall 2011 General Education (GE): ArtHum=Arts and Humanities; SciEng=Science and Engineering; SocSci=Social Sciences; Div=Domestic Diversity; Wrt=Writing Experience

Quarter Offered: F=Fall, W=Winter, S=Spring, Su=Summer; 2017-2018 offering in parentheses