

Computer Science and Engineering Undergraduate Program

UCSD Campus



Rendering translucent marble
using computer graphics



Tracking Internet
worm epidemics



Students working in
state-of-the-art programming labs



Founded in 1960, the University of California, San Diego has become one of the nation's premiere educational and research institutions. UCSD is ranked the 7th best public university by U.S. News and World Report, and 4th in the nation in graduation rate. UCSD is a campus of spectacular natural beauty nestled along the Pacific coastline, supporting a diverse community of 20,000 students.

UCSD's Computer Science and Engineering (CSE) department embodies the University's tradition of excellence as a world-class leader in education and research. The CSE undergraduate program prepares its students for leadership in a competitive high tech job market, and for advanced study in graduate school.



Majors

The CSE undergraduate program offers four majors:

B.S. in Computer Science: Thorough and rigorous curriculum in computer science theory, software, and hardware.

B.S. in Computer Science (Bioinformatics): Interdisciplinary major in biochemistry, biology, and computer science focusing on genomics and bioinformatics.

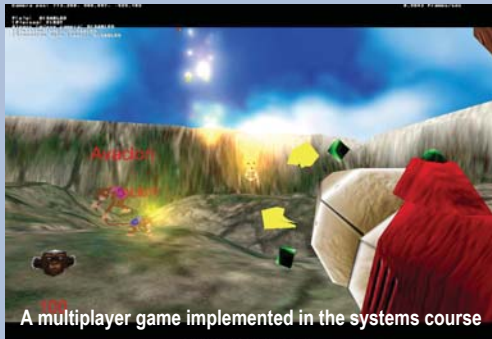
B.A. in Computer Science: Flexible requirements allow broader course of study.

B.S. in Computer Engineering: Emphasizes hardware and embedded systems.

We also offer a five-year Bachelors/Masters degree in Computer Science and Engineering for accomplished students demonstrating academic excellence.

For more information on the CSE undergraduate program visit:

www.cse.ucsd.edu/Undergraduate/



Curriculum

CSE offers a broad and deep curriculum, from core topics to electives among bioinformatics, computer vision, databases and XML, graphics, networking, computer security, and cryptography. We also offer challenging senior project courses in software systems, where teams create multiplayer games; Internet systems, where students create sophisticated web transaction systems; and mobile wireless computing, where teams create applications for handheld devices.

Faculty

CSE courses are taught by distinguished faculty who are leading experts in their course areas. Faculty commitment to teaching excellence has been honored with numerous teaching awards. Outside the classroom, students have the opportunity to interact with faculty as course lab tutors and readers, as undergraduate research assistants, and through faculty mentoring.

Facilities

CSE provides world-class instructional computing facilities and roaming access to a campus-wide wireless network. In addition, students have access to high-performance supercomputers at the San Diego Supercomputer Center (SDSC). Research projects also provide unique resources to students; recently, 300 freshmen received handheld PDAs in a mobile computing research project.

Opportunities

The CSE department supports and encourages students to explore opportunities outside the classroom:

Lab tutors and readers

Students assist in many CSE courses as paid lab tutors and readers, providing an excellent opportunity to interact more closely with faculty and other students.

Undergraduate research

Students participate in research projects with graduate students and faculty in CSE, SDSC, and the California Institute for Information Technology and Telecommunications [Cal-(IT)²].



Internships

CSE and the Jacobs School of Engineering have strong ties with local and national high-tech industry, where students can earn course credit while applying their academic knowledge towards exciting commercial technologies in paid internships.

Community

CSE has a strong tradition in fostering student community through a number of organizations and events:

Association for Computing Machinery (ACM)

ACM organizes social events for CSE students, including quarterly Linux InstallFests and all-night network gaming nights.

Programming Contests

CSE teams compete yearly in the ACM International Collegiate Programming Contest (ICPC), consistently placing at the top in ACM regional contests and often competing in the ICPC World Finals.

Women in Computing (WIC)

WIC is a support group and forum for enhancing the education of women in computing.

Admissions

Students apply to a CSE major either as incoming freshmen or as junior college transfers. Students must specify a CSE major on the application form when applying. For more information visit:

admissions.ucsd.edu.

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