

# College of Engineering and Computer Science

Dean: S. K. Ramesh

Associate Dean: Shoeleh S. Di Julio

(818) 677-4501

[www.ecs.csun.edu/ecs](http://www.ecs.csun.edu/ecs)

## Programs

### Undergraduate:

B.S., Civil Engineering  
 B.S., Computer Engineering  
 B.S., Computer Information Technology  
 B.S., Computer Science  
 B.S., Construction Management Technology  
 B.S., Electrical Engineering  
 B.S., Engineering Management  
 B.S., Manufacturing Systems Engineering  
 B.S., Mechanical Engineering  
 Minor in Computer Science  
 Minor in Construction Management Technology  
 Minor in Electrical Engineering  
 Minor in Manufacturing Systems Engineering  
 Minor in Engineering Management  
 Minor in Automation and CAD/CAM

### Graduate:

M.S., Computer Science  
 M.S., Software Engineering  
 M.S., Electrical Engineering  
 M.S., Engineering Management  
 M.S., Materials Engineering  
 M.S., Manufacturing Systems Engineering  
 M.S., Mechanical Engineering  
 M.S., Engineering with option  
 Option: Structural Engineering

## Accreditation

The Computer Science undergraduate program is accredited by the Computing Accreditation Commission, and the Civil Engineering, Computer Engineering, Electrical Engineering, Manufacturing Systems Engineering and Mechanical Engineering undergraduate programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

## Mission

The College of Engineering and Computer Science seeks to be a recognized center for excellence for baccalaureate and masters education in computer science and in engineering. The College provides a quality education for its students. It is also a partner in the professional communities of computer science and engineering and provides an essential link between students' education and professional practice.

## Departments Within the College

You will find information about the following departments alphabetically in this catalog: Civil Engineering and Applied Mechanics, Computer Science, Electrical and Computer Engineering, Manufacturing Systems Engineering and Management, and Mechanical Engineering.

## Engineering and Computer Science Scholarship Information

The College of Engineering and Computer Science administers a substantial scholarship program, dispersing over \$65,000 each year to

high-achieving engineering and computer science students. Annual scholarships are funded by corporate and individual friends of the College. Scholarship applications and information are available in January with applications due in late February. Specific dates and further information can be obtained from the College administrative offices.

## Honors Cooperative Internship Program

The college offers an opportunity for highly qualified students to work in the local industry throughout an entire calendar year. Students work full-time during the summer and half time during the academic year. Students receive 6 units of academic credit in conjunction with this experience. The program is open to undergraduates who are nearing their senior year, have a minimum 3.0 cumulative GPA and have passed the Upper Division Writing Proficiency Exam. Graduate students who wish to participate must have a minimum 3.5 cumulative GPA. Applicants are matched to employer-supplied job descriptions and scheduled for interviews with prospective employers. The competitive nature of the program usually generates more applicants than there are positions available. The application period begins in early March and the period of employment is typically from July 1 through June 30. <http://www.csun.edu/~ecscoop/>

## General Education (24- 27 Units)

Engineering and technology majors have modified General Education programs depending upon the year and enrollment status as a college student. Returning and transfer students should consult an advisor before planning their General Education programs. Each discipline has specific general education requirements, thus it is in the student's best interest to select a specific discipline early in their course of study.

In addition to the required major program courses, majors in engineering and technology fields must satisfactorily complete General Education Plan R requirements in Analytical Reading and Expository Writing (3 units), Oral Communication (3 units), U.S. History and Local Government (6 units), Arts and Humanities (6 units), Social Sciences (0 - 3 units), and Comparative Cultural Studies (6 units). Nine of the General Education Plan R units must be at the Upper Division, and six units must meet the Information Competence requirement.

Students should carefully consult their four-year plan and confer with their faculty advisor when selecting their General Education Plan R courses.

## Special Requirements for the College of Engineering and Computer Science

Courses transferred into the engineering and computer science majors must have been completed with a grade of C or better. A grade of C- or better is required in all courses in the major. More stringent prerequisite requirements may apply to some courses.

## Academic Advisement and Resources

### Student Services Center/EOP Satellite

Telephone: (818) 677-2191

Director: Karla Pelletier

### Center for Research and Services

Director: S. K. Ramesh

Telephone: (818) 677-2146

### Women in Science and Engineering Program

Director: Diane Schwartz

Telephone: (818) 677-5692

## Course List

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**CECS 100. Engineering and Computer Science Orientation Seminar (1)**

This course is designed to assist engineering and computer science first-time freshmen in making a successful transition to the university environment. Emphasis is on orientation to the University and the College of Engineering and Computer Science as well as study skills, teamwork, communication and career awareness. Various college and/or department based activities; frequent in-class exercises, self-assessments, some on-campus field trips. Does not count towards engineering or computer science major requirements. Seminar/Activity two hours, 1 unit. (Credit/No Credit only)