College of Engineering and Computer Science

"Our mission is simple. We want to educate engineers and computer scientists who will graduate with state-of-the art knowledge in their chosen field and are ready to embark on careers in industry and government, or proceed to acquire advanced degrees in their own or related fields. More and more of our graduates are also interested in being entrepreneurs, thanks to the success of so many young people on the West Coast who have become successful in creating wealth via technology."

Dean Raman Menon Unnikrishnan
COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

DEAN
Raman Menon Unnikrishnan

ASSOCIATE DEAN
Susamma Barua

DEAN'S OFFICE
Computer Science 502
657-278-3362

COLLEGE WEBSITE
http://www.fullerton.edu/ecs

The curricula of the College of Engineering and Computer Science are designed to prepare students for careers in engineering and computer science and for further study and specialization in graduate work. The faculty of the college is actively involved not only in instruction and scholarship but also in the advisement of students on topics relating to the planning of career and program goals. Cooperative education and internship programs are available.

PROGRAMS OFFERED

Civil Engineering, Bachelor of Science

Emphasis in Architectural Engineering

Civil Engineering, Master of Science

Concentration in Environmental Engineering

Computer Engineering, Bachelor of Science

Computer Science, Bachelor of Science

Computer Science, Minor

Computer Science, Master of Science

Electrical Engineering, Bachelor of Science

Electrical Engineering, Master of Science

Option in Systems Engineering

Mechanical Engineering, Bachelor of Science

Emphasis in Manufacturing Engineering

Mechanical Engineering, Master of Science

Software Engineering, Master of Science

ENGINEERING – UNDECLARED

The Engineering – Undeclared option is designed for students who are interested in pursuing an engineering education, but are undecided on a particular major withing the College of Engineering and Computer Science. The Associate Dean of the college will provide academic advising, help students explore their academic interests and guide students through the process of selecting and declaring a major. Students admitted as Engineering – Undeclared must declare a major before the beginning of the third semester.

The option is open only to freshmen applicants and is not open to transfer applicants. Transfer applicants must choose a specific major and should apply to that major.

GENERAL ENGINEERING COURSES

Courses are designated as EGGN in the class schedule.

205 Digital Computation (3)

(Same as EGME 205)

308 Engineering Analysis (3)

Prerequisites: PHYS 226, MATH 250B or equivalent. Fundamentals and engineering applications of Fourier series, Fourier transforms, Laplace transforms, complex analysis, vector analysis; engineering applications. (Same as EGCE 308, EGEE 308 and EGME 308)

314 Engineering Economy (2)

Prerequisite: junior or senior standing in engineering. Development, evaluation and presentation of alternatives for engineering systems and projects using principles of engineering economy and cost benefit analysis. (Same as EGME 314)

403 Computer Methods in Numerical Analysis (3)

Prerequisites: MATH 250B and EGGN 205 or equivalent. Use of numerical methods and digital computers in the solution of algebraic, transcendental, simultaneous, ordinary and partial differential equations.

495 Professional Practice (1-3)

Prerequisite: junior or senior standing in engineering. Professional engineering work in industry or government. Written report required. May be repeated for credit. Applicable towards bachelor's degree programs. Not for credit in the graduate program.

http://www.fullerton.edu/career/
http://fullerton.edu/cice/StudentAcademicInternships.html
http://www.fullerton.edu/cice/infocards/InfoCard_Engineering.pdf

**Note New Program Offered:
Environmental Engineering, Master of Science