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# Engineering

In the College of Engineering

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The College of Engineering undergraduate programs in aerospace, civil, computer, electrical, environmental, and mechanical engineering are accredited by the American Board for Engineering and Technology.

## Faculty

Faculty assigned to teach courses in engineering are drawn from departments in the College of Engineering.

San Diego State University is in the process of securing approval for a Bachelor of Science degree in Construction Engineering. For further information, contact the Department of Civil and Environmental Engineering.

## Minor in Engineering

The minor in engineering, intended for students in other academic areas of the university, consists of 15 units in engineering, 12 units of which must be in upper division courses. The courses must be approved by the dean of the College of Engineering.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (ENGR)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### ENGR 280. Methods of Analysis (3) I, II

Prerequisite: Mathematics 151 with minimum grade of C. Recommended: Mathematics 252.

Selected topics from ordinary differential equations, the Laplace transform, Fourier series, and linear algebra, with engineering applications.

#### ENGR 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### ENGR 430. Principles of Engineering Economy (3) I, II

Prerequisite: Mathematics 151.

Application of the mathematics of finance to engineering and managerial decision making.

#### ENGR 496. Advanced Engineering Topics (1-3) I, II

Prerequisite: Minimum grade point average of 2.0 in engineering.

Modern developments in engineering. See *Class Schedule* for specific content. Maximum credit six units for any combination of 496, 499, and 596 applicable to a bachelor's degree.

### UPPER DIVISION COURSE (Also Acceptable for Advanced Degrees)

#### ENGR 510. Methods of Analysis (3)

Prerequisite: Engineering 280 with minimum grade of C.

Selected topics from vector calculus, partial differential equations, and complex analysis, with engineering applications.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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