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# Engineering

In the College of Engineering

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

## Faculty

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

### LOWER DIVISION COURSES

#### 120. Engineering Problem Analysis (2) I, II

One lecture and three hours of laboratory.

Prerequisite: Concurrent registration in Mathematics 150. **Proof of completion of prerequisite required:** Copy of transcript or enrollment verification.

Analysis of engineering problems and solutions using the digital computer. Fundamentals of programming and programming language commands.

#### 190. Graphical Communication in a Virtual Reality Environment (2)

Six hours of laboratory.

Graphic communication for engineers including computer-aided design and three-dimensional representation for a virtual reality environment.

#### 195. Graphical Communication in a Virtual Reality Environment II (2)

Six hours of laboratory.

Continuation of graphic communication for engineers including computer-aided design and three-dimensional representation for a virtual reality environment. Design, analysis, NC, SLA prototyping and testing of engineering components using computer-based modeling techniques.

#### 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.

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“Not everything that can  
be counted counts, and  
not everything that  
counts can be counted.”

—*Albert Einstein*

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

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

### UPPER DIVISION COURSES (Intended for Undergraduates)

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

Prerequisite: Mathematics 252.

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

#### 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)

#### 510. Methods of Analysis (3) I, II

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 Bulletin of the Graduate Division.

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