



## Engineering and Computer Science

CSUN offers a variety of undergraduate courses (bachelor's level) in engineering and related subjects. The College of Engineering and Computer Science welcomes international students and integrates them into university classes with early enrollment before the semester begins. In addition to all student services and events on campus, SAC students may participate in the engineering college's student organizations, professional development, career events and tutoring services.

### Areas of Study

- **Civil Engineering and Applied Mechanics**
- **Computer Science**
- **Computer Engineering**
- **Construction Management**
- **Electrical Engineering** (specializations: Biomedical Engineering, Communication Systems Engineering, Control Systems, Digital System Design, Electronics and Solid State Engineering, Microwave and Antenna Engineering, Electrical Power Systems)
- **Engineering Management**
- **Mechanical Engineering** (specializations: Aerospace Engineering, Automotive Engineering, Energy Systems and Power, Mechanical System Design, Mecha-tronics and Robotics, and Thermal-Fluid Systems)
- **Manufacturing Systems Engineering**

Related courses can also be found in other academic departments, such as Physics, Chemistry, Math, Philosophy and Environmental and Occupational Health.

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The **Accreditation Board for Engineering and Technology (ABET)** accredits college and university programs in the disciplines of applied science, computing, engineering, and engineering technology. At CSUN, the bachelor's degree programs in Civil Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering, and Manufacturing Systems Engineering are accredited by the

**Engineering Accreditation Commission of ABET.** The bachelor's degree program in Computer Science is accredited by the **Computing Accreditation Commission of ABET.**



### Example Courses\*

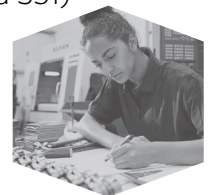
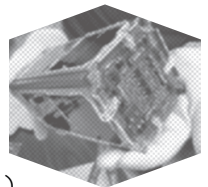
#### Introductory and Intermediate Level\*

- Applied Differential Equations (MATH 280)
- Business Communication (ENGL 205)
- Computer-Aided Design and Lab (ME 186/L)
- Dynamics of Leadership (RTM 302)
- Electricity and Magnetism and Lab (PHYS 220B/L)
- Engineering Economic Analysis (MSE 304)
- Engineering Materials (MSE 227)
- Engineering Statics (CE 240)
- Innovation, Invention and Technology (MSE 303)
- Introduction to Business (BUS 104)
- Intro. to Electrical Engineering and Lab (ECE 101/L)
- Intro. to Mechanical Engineering and Lab (ME 101/L)
- Mechanics and Lab (PHYS 220A/L)
- Reasoning in the Sciences (PHIL 210)
- Report Writing (ENGL 306)
- Surveying and Lab (CE 308/L)
- Electrical Engineering Fundamentals (ECE 240/L)
- Women in Math, Science and Engineering (MSE 302)



#### Advanced Level\*

- Automotive Engineering (ME 460)
- Engineering Dynamics (AM 316)
- Engineering Hydrology and Lab (CE 460/L)
- Facilities Planning and Design (MSE 403CS)
- Fundamentals of Aerospace Engineering (AE 480)
- Fundamentals of Alt. Energy and Fuel Cell Tech (ME 482)
- Fundamentals of Computer-Aided Manuf. (MSE 409/L)
- Intro. to Engineering and Tech Management (MSE 401)
- Lean Manufacturing Systems (MSE 507)
- Linear Systems I and II (ECE 350 and 351)
- Machine Design (ME 330)
- Mechatronics and Lab (ME 435/L)
- Occupational Safety (EOH 465)
- Product Design (MSE 415)
- Project Management (SOM 466)
- Quality Management and Control (SOM 467)
- Real-Time Digital Signal Processing and Lab (ECE 451/L)
- Thermodynamics I and II (ME 370 and 470)



\*In order to qualify for most intermediate and advanced courses, students must satisfy the course prerequisites.

## Discover more:



**The University Catalog** (<http://www.csun.edu/catalog>) contains a complete listing of every department, degree program, and course offered at CSUN, along with a short course description for each course. Keywords can help you find a course that includes a topic you want to study. Try a keyword search, using the Search box. Please note that the University Catalog shows all **existing** courses, but CSUN does not offer every course during each semester. To find the actual courses **available** during a specific semester, use the Class Search website.



**Department websites** can also be a helpful resource. Each department maintains a website with specific information about its courses, special areas of study, instructors, and department policies. Some department websites have faculty bios (to learn about the instructor's background) and course syllabi. A quick way to find each department website is through the academic programs directory: <http://www.csun.edu/academic>.

### College of Engineering & Computer Science

Civil Engineering & Construction Management: <http://www.csun.edu/~ceam/>

Computer Science: <http://www.csun.edu/comp>

Electrical & Computer Engineering: <http://www.csun.edu/ece>

Mechanical Engineering: <http://www.csun.edu/me>

Manufacturing Systems Engineering & Management: <http://www.csun.edu/msem>





**The Class Search website** shows the classes that are **available** in a specific semester.

1. Go to <http://www.csun.edu/class-search>. Select the following:

- Term: Choose the appropriate semester.
- Session: Choose "Regular" or "Regular-Tentative"
- Subject/Department: Choose a subject/department from the drop-down menu.
- Additional Category: Leave this blank.

2. Click the "Quick Search" button. A list of available classes will display!

3. Click the green arrow (  ) to expand the Course entry. This will show the amount of Class Sections offered.

4. Click the "Detail" icon (  ) to view more information, such as: course description (the same description you can find in the University Catalog), class size, meeting details, special notes about the class, and the course prerequisites.

**Course numbers** indicate the academic level of the course:

100's	Fundamental/introduction: No prerequisites!
200's	Intermediate: Check for prerequisites.
300's	Intermediate/advanced: Check for prerequisites.
400's	Advanced: Students should be in the final year of a bachelor's program and must meet the prerequisites.
500's	Graduate-level (Master's): Some courses may be open to undergraduate students in the final year of a bachelor's program, if all prerequisites are met.
600-700's	Graduate-level (Master's or Doctorate): Not open to undergraduate students.

**Minimum unit requirement** for full-time enrollment:

Undergraduate (bachelor's) students	12 units (4 classes)
Graduate (master's) students	9 units (3 classes)

### Contact Information:

#### Admission and Program

[tsengcollege.csun.edu/SAC](http://tsengcollege.csun.edu/SAC)

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