



ENGINEERING

Cabrillo College
6500 Soquel Drive
Aptos, CA 95003



CURRICULUM

Cabrillo College's engineering program provides the course work necessary for you to transfer as a junior in engineering to a four-year school which grants bachelor's degrees. The courses are coordinated with those at four-year schools to ensure direct transfer equivalency. You can also complete an Associate of Science degree in engineering at Cabrillo by completing general education requirements, but this is not required for transfer.

Since the specific course requirements for transfer, including the core courses to the right and some general education courses, depend on your intended engineering major and the transfer university, it is important that you meet with the Engineering Department or engineering transfer counselor and consult www.assist.org for transfer requirements.

Completion of the core courses, which have been adopted by the ELC, is essential in facilitating progress as a junior-level student at the transfer universities.

Core Courses

ENGR 1A	Surveying
ENGR 5	Engineering as a Profession
ENGR 10	Engineering Communication
ENGR 15	Circuits
ENGR 25	Graphics and Design
ENGR 26	Solid Modeling
ENGR 35	Statics
ENGR 45	Engineering Materials
CHEM 1AB	Chemistry
PHYS 4ABCD	Physics for Scientists and Engineers
MATH 5ABC	Analytical Geometry & Calculus I, II, III
MATH 6&7	Linear Algebra & Differential Equations
CIS 11&19	C/C++ Programming

FOR MORE INFORMATION

Engineering Department

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NONDISCRIMINATION POLICY

It is the policy of the Cabrillo Community College District to provide an environment free of unlawful discrimination. Discrimination on the basis of ethnic group identification, national origin, religion, age, sex, race, color, physical or mental disability or sexual orientation, in the District's programs, activities and work environment is unlawful and will not be tolerated by the District. Limited English language skills will not be a barrier to admission to and participation in vocational education programs. The District strongly forbids any form of discrimination and has enacted procedures to recognize and eliminate unlawful discrimination.

If you have or think you may have a learning, psychological, or physical disability and are in need of reasonable accommodations, and/or assistance with applying to this program please contact Disabled Student Program & Services at (831) 479-6379. Identification of disability is voluntary and will in no way jeopardize program selection. If accommodations need to be made for State and National Registry examinations, the disability must be certified.

The information presented in this brochure is accurate as of the date of publication and to the best of our knowledge. It may change at any time. Please check with a

Cabrillo College

www.cabrillo.edu

ENGINEERING

WHO ARE ENGINEERS?

Engineers are the people who design and build the systems, structures and products that make the world run. Engineers are employed in research, development, design, construction, and manufacturing of technical projects related to almost all aspects of modern life, including the environment, communications, transportation, food production, medicine and health, space exploration, housing and energy.

Are you interested in

- Cleaning up the environment?
- Designing fast trains for better transportation?
- Making the workplace safer and more productive?
- Building structures and roads able to withstand earthquakes?
- Developing materials that are strong, light-weight, and fire-resistant?
- Solving the energy crisis?
- Inventing a profitable new product?
- Writing new user friendly software?

Engineers are the people who will provide these solutions as well as many others. Engineers are the vital link between the scientist and the public in applying fundamental knowledge to solving everyday problems. The 21st century will present us with many opportunities for constructive change using technology, and you can be part of that change!

HOW TO BECOME AN ENGINEER?

In order to become an engineer, you need four years of college leading to a Bachelor of Science degree in engineering. The first two years provide a general education common to all branches of engineering including physics, chemistry, mathematics, liberal arts and introductory engineering courses. The second two years allow for specialization in branches such as:

- Civil and Environmental
- Mechanical and Aeronautical
- Electrical, Electronics, and Computer
- Industrial and Manufacturing
- Materials and Chemical
- Agricultural and Biomedical

Presently, California universities that grant BS degrees in engineering count on community colleges to provide approximately 50% of their junior class.



WHY STUDY AT CABRILLO COLLEGE?

Program

Cabrillo College offers a complete engineering program that prepares you for transfer with full junior standing to four-year engineering colleges in California and across the United States. Cabrillo is the only community college in the tri-county area (Santa Cruz, Monterey and San Benito) that presents a complete transfer program.

Cabrillo's engineering coursework follows a pattern established by the California Engineering Liaison Council (ELC). The ELC is an organization composed of representatives of engineering education throughout California. This organization coordinates and standardizes the first two years of engineering education to ensure that you can successfully transfer from community colleges to any four-year institution as a junior majoring in engineering.

Students and Alumni

The Cabrillo engineering program presently has approximately 250 engineering students making it one of the top ten majors at Cabrillo. All the diversity of the student population is present in the engineering student body. The Cabrillo Engineering Society is a venue for bringing all these diverse talents together.

Cabrillo engineering students, who have gone on to earn their engineering degrees from many universities, have made a major impact on Santa Cruz county as they have returned to occupy a wide range of positions in the public and private sectors of business and professional life in our area. Many have assisted in providing part-time and summer jobs for current engineering students, who, in turn, have made a significant contribution to the local technical community. Former students are a major source of gifts to the engineering scholarship fund and other endowed awards.

***Become an
Engineer and
Make a
Difference!***

Curriculum and Faculty

The engineering curriculum at Cabrillo College is high quality and innovative. Courses developed at Cabrillo have served as models for courses across California. You can complete the first two years of the engineering curriculum at Cabrillo, where experienced faculty and modern classroom and laboratory facilities provide an outstanding opportunity to launch your career at minimum cost. The faculty is committed to giving you everything you need to be successful in your junior and senior years and, at the same time, making the experience fun!

The quality of education, the individualized attention, the convenience, and the cost are the advantages of coming to Cabrillo. History has proven that Cabrillo students do as well as, and in most cases better than, those students who started as freshman at the four-year schools.

