What is the Curriculum?

Cabrillo College’s engineering program provides course work with direct transfer equivalency to those at four-year colleges and universities.

Besides taking math, science and general education at Cabrillo, you will also take some combination of the following engineering courses:

ENGR 1A  Surveying
ENGR 5  Engineering as a Profession
ENGR 10  Engineering Communication
ENGR 12  Machining Processes
ENGR 15  Circuits
ENGR 25  Graphics and Design
ENGR 26  Solid Modeling
ENGR 30  Computer Applications in Engineering
ENGR 35  Statics
ENGR 45  Engineering Materials

You can also complete an Associate of Science degree in Engineering at Cabrillo, but this is not required for transfer.

Since the specific course requirements for transfer depend on your intended engineering major and the transfer university, it is important that you meet with the Engineering Department or STEM Center counselors and consult www.assist.org for transfer requirements.

To learn more, contact:

Engineering Department
Cabrillo College
6500 Soquel Drive, Aptos, CA 95003
(831) 479-6497
cabrillo.edu/academics/engineering

Nondiscrimination Policy

Cabrillo Community College does not discriminate on the basis of ethnic group identification, national origin, religion, age, sex, race, color, physical or mental disability, or sexual orientation or sexual practices. The nondiscrimination policy covers admission and access to, and treatment and employment in, the college’s programs and activities, including vocational education programs. Limited English language skills will not be a barrier to admission to and participation in vocational education programs.

Plan De Acción No Discriminatoria

Cabrillo Community College no discrimina a base de identificación con grupos étnicos, nacionalidad de origen, religión, edad, sexo, raza, color, incapacidad mental o física ni orientación sexual en ninguna de sus reglamentaciones, procedimientos o prácticas. Este plan de acción no discriminatoria incluye la admisión y el acceso a los programas y actividades, y el trato y el empleo en los mismos, incluyendo la educación vocacional. Tener limitadas destrezas en el idioma inglés no constituirá una barrera para ser admitido o participar en los programas de educación vocacional.
Who are Engineers?

Engineers are the people who design and build the systems, structures, and products that make our world run. Engineers apply principles of science & math with their own creativity to meet the needs and solve the problems of our world.

Everywhere you look you’ll see examples of engineering having a positive effect on everyday life. Cars are safer, sound systems deliver better acoustics, medical tests are more accurate, and computers & cell phones are a lot more fun!

**Are you interested in:**
- protecting the environment?
- developing sustainable water solutions?
- solving the world’s energy issues?
- designing advances in medicine and medical devices?
- inventing a profitable new product?
- writing new user friendly software?
- creating new technologies?
- designing robotics and mechanization?
- optimizing systems?
- building resilient infrastructure?
- developing innovative materials?
- exploring space travel?
- designing energy-efficient vehicles?

Then, engineering is a career you would enjoy.

Engineers work in design teams where each person brings their own strength to the table. A team of engineers together have many skills. Which skills below can you bring to an engineering team?

- **Spatial**
- **Mathematical**
- **Analytical**
- **Visionary**
- **Tinkerer**
- **Organized**
- **Analytical**
- **Team Player**
- **Altruistic**
- **Creative**
- **Social**
- **Humanitarian**

How Do I Become an Engineer?

You’ll need to earn a Baccalaureate of Science (BS) degree in Engineering, which requires four years of college coursework in math, science, liberal arts and engineering courses.

You can take your first two years of coursework at Cabrillo College and then transfer to a university for your remaining two years, or you can go straight to a university from high school.

**There are many fields of engineering to choose from.**

Explore them all at Cabrillo. Some popular majors to choose from are:

- Biomedical, Mechanical, and Aerospace
- Chemical, Biological, and Agriculture
- Civil, Environmental, Structural, & Architectural
- Electrical, Computer, and Software
- Industrial and Manufacturing
- Materials and Nanotechnology
- Nuclear and Petroleum

Take the **ENGR 5: Engineering as a Profession** course at Cabrillo while you are in high school or college to match your passion to the engineering career that suits you. And, learn more about each field of engineering at www.bls.gov (search on “engineering”).

**~50% of engineering students in California attend a community college before transferring to a university to receive their BS degrees in engineering.***

Why Study at Cabrillo College?

Engineering is one of the top ten majors at Cabrillo with more than 300 students majoring in engineering. The Engineering Department at Cabrillo provides the complete first two years of coursework, which prepares you for transfer with full junior standing to all four-year engineering colleges/universities in California and across the United States.

Cabrillo’s engineering program offers:

- small class sizes
- a cost-effective education
- accessible faculty who are committed to your academic success
- an engaged community of students
- faculty with varied disciplines and interests
- modern classrooms and laboratory facilities
- a hands-on, fun engineering curriculum
- courses that transfer to all UC, CSU & private universities
- a strong foundation for your junior & senior years

**Will there be other students like me in this program?**

All the diversity of Cabrillo’s student population is present in the Engineering Department and active in many of the engineering student clubs.

**Engineering Department Alumni**

Cabrillo has connections to many engineers throughout Santa Cruz County and beyond through our 1000+ alumni. These alumni provide tours, job shadowing activities, and internships to current students. And, they are the major donors to our scholarship and project funds.

**Make your mark on the world—become an Engineer and make a difference!**