

Civil & Environmental Engineering at UH

The program of courses for Civil and Environmental Engineering includes 32 credits of Mathematics and Basic Sciences, 32 credits of Engineering Sciences, and 16 credits of Engineering Design.

For detailed course information please visit us at:
www.cee.hawaii.edu

“Civil Engineering as a profession offers a wide range of career opportunities in areas that support the health, safety and well-being of the population. As a Civil Engineer, your career options may center on safe drinking water systems, roadways, bridges and other structures, energy systems, natural disaster mitigation, and many, many more. Civil engineering specialties are at the heart of human-made structures everywhere.

If you feel you would like to play a part in creating a sustainable future, or in the continuing development of Hawaii’s infrastructure, Civil Engineering might be for you.”

-Prof. C.S. Papacostas, Chair, Dept. of Civil & Environmental Engineering

Careers in Civil Engineering

Hawaii has a continuing need for professionals who design, build, operate, maintain and improve our infrastructure to support over a million residents and over five million annual visitors. Unlike other states that receive services from their neighbors, Hawaii needs all forms of its infrastructure in place and its long-term success depends on sustainability. Careers for Civil and Environmental Engineers may include:

- Construction Management
- Environmental
- Water Resources
- Geotechnical
- Structural
- Transportation

Admission Requirements from High School

Minimum major entry requirements are the successful completion of Trigonometry, Physics and Chemistry classes.

The College also uses aptitude tests and other high school records in its screening process

Transfer Admission Requirements

Minimum transfer requirements into the College of Engineering are the successful completion of ENG 100, Math 241 & 242, Physics 170/170L, CHEM 161/161L and 162—or their equivalents—and a cumulative GPA of 3.0

If you don't meet entry requirements right now...

You can enroll in Pre-Engineering in Arts and Sciences and transfer to an engineering major at a later time. Pre-Engineering students will have a College of Engineering advisor and may enroll in lower division engineering courses with no additional approvals.



www.eng.hawaii.edu

The University of Hawaii at Manoa
College of Engineering
2540 Dole Street, Holmes 240
Honolulu, Hawaii, 96822
(808) 956-7727



Civil & Environmental Engineering

Civil Engineering is the branch of engineering that relates to the design and construction of buildings, bridges, roads, reservoirs and other structures. Civil Engineers are involved in all phases of these projects from design, to construction, to final inspection and operation.



What Civil & Environmental Engineers Do

Civil Engineers use the science of structures, materials and even geology to design and construct such things as buildings, roadways, reservoirs and power plants.

The pyramids in Egypt and the design and construction of *lokoī'a* in Hawaii can be seen as examples of engineering in ancient times. These days, the working field for Civil and Environmental Engineers is bound by neither land or sea.

Civil and Environmental Engineering are not new in Hawaii. Fish ponds and other ancient structures can be seen as early examples of the Engineer's art.



Building a modern stadium means choosing materials and designing huge structures so that thousands of people can watch sporting events safely and enjoyably.

Civil and Environmental Engineers work closely with construction in all fields. Engineers design projects, consult during the construction phase, and do final inspections when projects are complete. There are many engineers working in both private industry and government agencies.



Transportation has long been a field in which Engineers have worked. Elevated highways and airport landing fields are designed to hold up under the stresses of hard use and Mother Nature. Lives can depend on it!



New technologies and materials enable the development of fire-resistant and energy-efficient buildings and structures that can withstand tsunamis, hurricanes and earthquakes. In addition to math and science, Civil Engineering involves both respect and understanding of the Earth, its people and its environment.



Using scale models and other equipment, engineers test materials and structural designs against the forces of nature.

