Civil Engineering

B.S. Degree

Civil engineers plan, design and supervise the construction of public and private structures such as space-launch facilities, offshore structures, bridges, buildings, tunnels, highways, transit systems, dams, airports, irrigation projects, and water treatment and distribution facilities.

Civil engineers use sophisticated technology and employ computer-aided engineering during design, construction, project scheduling and cost control project phases. They are creative problem solvers involved in community development and the challenges of pollution, deteriorating infrastructure, traffic congestion, energy needs, floods, earthquakes and urban planning.

The civil engineering program at UAF has been accredited since 1940 and is currently accredited by the Engineering Accreditation Commission of ABET. All engineering programs in the department give special attention to problems of Northern regions.

The program educational objectives of the B.S. in civil engineering program are:

1. Graduates earnestly pursue professional careers in civil engineering and related fields.
2. Graduates innovatively meet engineering challenges, including those of cold climates and remote locations, working independently and in teams.
3. Graduates actively serve the professional community, pursue licensure and lifelong learning, and demonstrate high ethical standards.

In addition to general civil engineering courses, the department offers specialties in transportation, geotechnical, structures, water resources, hydrology and environmental studies. These courses emphasize principles of analysis, planning and engineering design in northern regions.

Minimum Requirements for Civil Engineering Bachelor's Degree: 134 credits

Learn more about the bachelor's degree in civil engineering (https://uaf.edu/academics/programs/bachelors/civil-engineering.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines
Department of Civil and Environmental Engineering (http://cem.uaf.edu/cee/)
907-474-7241

Programs

Degree

- B.S., Civil Engineering (http://catalog.uaf.edu/bachelors/bachelors-degree-programs/civil-engineering/bs/)