CIVIL ENGINEERING

B.S., B.S./M.S. Degrees

Civil engineers plan, design and supervise the construction of public and private structures such as bridges, buildings, tunnels, highways, transit systems, dams, offshore structures, airports, irrigation projects and water treatment and distribution facilities. Civil engineers use critical thinking, sophisticated technology and computer-aided engineering during design, construction, project scheduling and cost-control project phases. Civil engineers are creative problem solvers involved in community development and in addressing challenges of pollution, deteriorating infrastructure, traffic safety, energy needs, floods, earthquakes and urban planning.

The mission of the civil engineering program is to provide the highest level of undergraduate education, including competency in mathematics, science and engineering fundamentals, as well as training in design, the latest engineering applications and professional practice; to provide an environment encouraging research for engineers at the undergraduate, master's and doctorate levels; and to impart a desire for lifelong learning so that engineers from our program remain atop their field throughout their careers. The civil engineering program at UAF has maintained accreditation since 1940 and is currently accredited by the Engineering Accreditation Commission of ABET.

Educational Objectives of the B.S. Civil Engineering Program

1. Our graduates use their education to pursue professional careers in civil engineering and/or related fields in the public or private sectors, and/or graduate education.

2. Our graduates possess the knowledge required to meet the challenges of civil engineering problems, including those unique to remote locations and cold regions including Alaska.

3. Our graduates demonstrate professionalism through clear communication, actively serving the community, teamwork, commitment to ethical standards, and pursuit of licensure.

In addition to general civil engineering courses, the department offers specialties in transportation, geotechnical, structures, water resources, hydrology and environmental studies.

Minimum Requirements for Civil Engineering Degrees: B.A. 125 credits; B.S./M.S. Degrees: 143 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, Geological and Environmental Engineering (https://www.uaf.edu/cem/programs/civil-engineering/)
907-474-7241

Programs

Degree

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

• Accelerated B.S./M.S., Civil Engineering (http://catalog.uaf.edu/accelerated-programs/accelerated-programs-list/civil-engineering-bs-ms/)