B.S. Degree

Minimum Requirements for Degree: 134 credits

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.

For more information about the civil engineering program mission, goals and educational objectives, visit http://cem.uaf.edu/cee/abet/.

Degree

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