MECHANICAL ENGINEERING

M.S. Degree

The mission of the Mechanical Engineering Department at UAF is to offer the highest-quality contemporary education at undergraduate and graduate levels, and to perform research as appropriate to the technical needs of the state of Alaska, the nation and the world.

Mechanical engineers conceive, plan, design and direct the manufacturing, distribution and operation of a wide variety of devices, machines and systems for energy conversion, environmental control, materials processing, transportation, materials handling and other purposes. Mechanical engineers are engaged in creative design, applied research, development and management.

The mechanical engineering program prepares its graduates for careers at the professional level; maintains, as a base, ABET accreditation of the undergraduate program; provides continuing educational opportunities for graduate engineers; is a resource of technical knowledge for the state and nation; conducts research in all areas of mechanical engineering including cold regions mechanical engineering; and offers a graduate program in mechanical engineering at the M.S. level.

The educational objectives of the department are that graduates from the mechanical engineering program must be able to apply the knowledge of mathematics, science and engineering; be able to design and conduct experiments, as well as to analyze and interpret data; be able to design a system, component or process to meet desired needs; be able to function on multi-interdisciplinary teams; be able to identify, formulate and solve engineering problems; understand professional and ethical responsibility; be able to communicate effectively; have the broad education necessary to understand the impact of engineering solutions in a global and societal context; recognize the need for, and be able to engage in, life-long learning; understand contemporary issues; and be able to use the techniques, skills and modern engineering tools necessary for engineering practice. The department ensures that each course in the curriculum plays a meaningful role in satisfying one or more of these objectives.

Minimum Requirements for Mechanical Engineering M.S. Degree: 30 credits

College of Engineering and Mines
Department of Mechanical Engineering (https://cem.uaf.edu/me/)
907-474-7136

Programs

Degree

• M.S., Mechanical Engineering (http://catalog.uaf.edu/graduate/graduate-degree-programs/mechanical-engineering/ms/)
• B.S./M.S., Mechanical Engineering (http://catalog.uaf.edu/accelerated-programs/accelerated-programs-list/mechanical-engineering-bs-ms/)