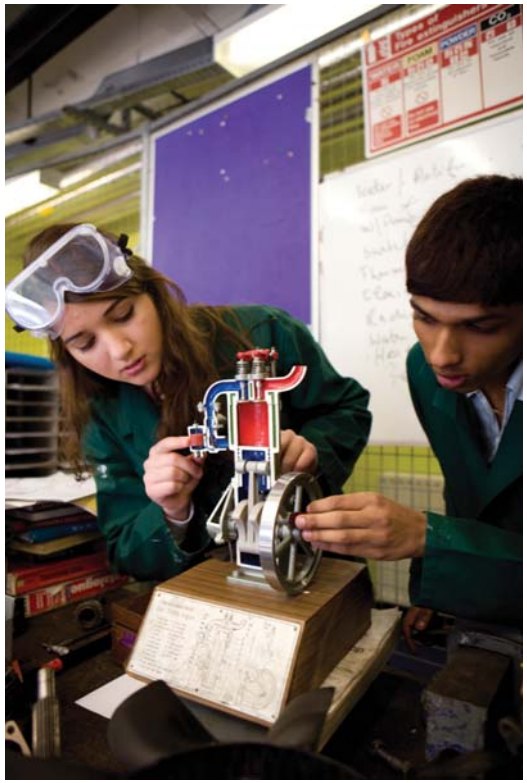
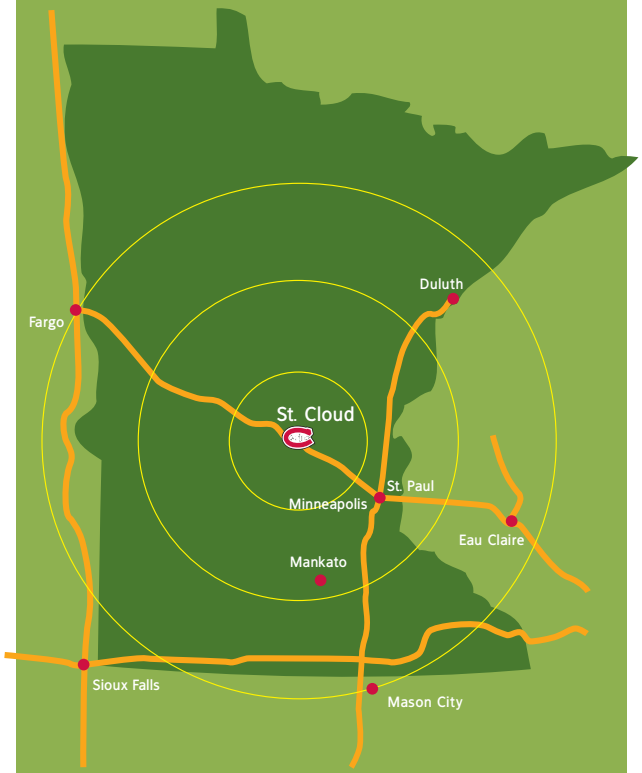
Why St. Cloud State University?

- Small class sizes
- ABET-accredited programs
- State-of-the-art laboratories
- Individual attention
- Integration of theory and hands-on application
- Modern and multidisciplinary curriculum
- Dedicated and experienced faculty
- Funded projects from industry
- Excellent job opportunities
- Preparation for graduate studies
- Great value at a low price
- A smaller town, an hour from the Twin Cities
- Scholarships available





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A MEMBER OF THE MINNESOTA STATE COLLEGES AND UNIVERSITIES SYSTEM

MECHANICAL AND MANUFACTURING ENGINEERING

What a ride!

What is engineering?

en·gi·neer·ing (noun)
the branch of science and technology concerned with the design, building and use of engines, machines and structures.

Manufacturing Engineering

Converting raw materials into products to satisfy human needs is the core of manufacturing engineering.

Manufacturing engineers lead teams in developing usable and marketable products and creating new manufactring strategies, systems and facilities.

Areas encompassed include:

- product design
- quality control
- production management
- process design and improvement
- robotics and automation
- tool design and material handling

Mechanical Engineering

Applying scientific and engineering principles to the design, manufacture, installation and operation of machines and processes is the core of mechanical engineering.

Mechanical engineers design transportation systems, consumer goods, factory equipment and automation.

Areas encompassed include:
- machine design
- thermal sciences
- biomedical devices
- control systems
- engineering materials

What is accreditation?

ac·cred·i·ta·tion (noun)
assurance that a college or university program meets the quality standards established.

ABET, Inc. is the recognized accreditor for U.S. college and university programs in applied science, computing, engineering and technology in the United States.

Academic Programs

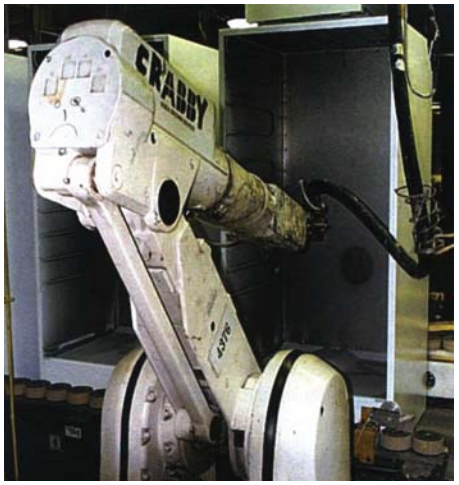
Undergraduate Programs
Both our undergraduate programs are ABET accredited.

- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Manufacturing Engineering
  http://bulletin.stcloudstate.edu/ugb/programs/mme.asp

Graduate Programs
The graduate programs have been developed with the working professional in mind and offer evening, ITV and remote site classes.

- Master of Science in Mechanical Engineering
  www.stcloudstate.edu/mme/msme/default.asp

- Master of Engineering Management
  www.stcloudstate.edu/mem



Facilities and Equipment

We host state-of-the-art laboratories on campus and also at local industry sites. All faculty members have Ph.Ds and extensive industrial experience. Students are exposed to real world engineering and get hands-on experience. Consequently they do extremely well on the engineer-in-training exam. Modern curricula in the MME department employ continously evolving labs and design tools:
- rapid prototyping
- metallurgy, manufacturing processes
- thermal sciences
- robotics and automation
- optics/laser
- material characterization
- computer-aided-design (CAD)

Career Preparation

Local companies have funded many senior design projects, and students often find employment with these companies. These real-world projects have real budgets, objectives and deadlines and provide valuable experience for a competitive edge when finding employment.

Our graduates' pass rate on the national Fundamentals of Engineering exam has been **100 percent** for the past decade. Job placement rate for our graduates is nearly 100 percent year after year.