Mechanical Engineering (B.S.)

Specialize in four different areas: mechanical design, thermal sciences, manufacturing and materials, and aerospace.

Machines are at the core of our daily lives, and mechanical engineers are responsible for designing them. The Mechanical Engineering program has a strong technical curriculum that will give you the skills to understand the practical uses of math, science and engineering.

Program Snapshot
Program type: Major
Format: On-campus or online
Est. time to complete: 4 years (on campus); 6+ years (online)
Credit hours: 129

Why Study Mechanical Engineering at UND?

Gain hands-on experience from the first courses you take in the University of North Dakota's Mechanical Engineering program. You'll take four science courses with labs during your first two years, and you'll build a component or system designed by you in at least one class every year. All your classes will emphasize teamwork and collaborative problem solving, mandatory skills in today's engineering workplace.

Our combined mechanical engineering degree program could let you earn a master's degree in mechanical engineering in just one additional year.

You may focus on one of four optional concentrations:

- Mechanical Design
- Thermal Sciences
- Manufacturing and Materials
- Aerospace (134 credit hours required)

Top Online Engineering College in the Nation

Every engineering program offers education, but not every program prepares students to make a real impact the way UND does. UND is increasingly regarded as one of the top academic and research institutions in the nation for engineering. We consistently rank among the best for educational quality, affordability, and career outcomes.

#3 - Best Online Colleges Offering Bachelor's in Engineering Degrees in 2019
#4 - BEST ONLINE MECHANICAL ENGINEERING DEGREE in 2019
#4 - Best Online Mechanical Engineering Degrees in 2019
#5 - 15 BEST ONLINE ENGINEERING DEGREE BACHELOR'S PROGRAMS FOR 2020

Accredited by ABET

Study mechanical engineering at an accredited university. The mechanical engineering program is accredited by the Engineering Accreditation Commission of ABET.
Leaders in Action

Colin Sabie is an Army veteran who found inspiration during his military experience to pursue mechanical engineering.

Application Deadlines

**FALL:**
FRESHMEN: FEB. 1* | AUG. 1
TRANSFERS: APRIL 15* | AUG. 1
*ACADEMIC SCHOLARSHIP PRIORITY DEADLINE
SPRING: DEC. 15
SUMMER: MAY 1
Mechanical Engineering at UND

- Get on-the-job experience as an entry-level engineer in our co-op program. Work for companies such as Honda, Energizer, Xcel Energy and more while still a student — and while being paid.
- Work on wind-tunnel experiments, space hardware design, nanotechnology and other projects.
- Solve real-world industrial problems in design projects sponsored by 3M, NASA, Arctic Cat and more.
- Earn a mechanical engineering degree wherever you live or work through UND Online. UND was one of the first online engineering programs in nation.
- Experience hands-on learning from the start when you build a design project and prototype during your first year on campus.

Jobs in Mechanical Engineering

84K
Median annual salary for a mechanical engineer*

25K
Number of new mechanical engineering jobs expected by 2026*

*U.S. Bureau of Labor Statistics

You'll graduate with the skills to pursue a career in mechanical design, thermal systems, and manufacturing and materials in industry or government. As one of the most versatile engineering disciplines, you'll find job opportunities in a broad spectrum of industries, including:

- Aerospace
- Renewable Energy
- Manufacturing
- Consumer Products
- Defense Industries
- Medical
- Petroleum
- Transportation

UND mechanical engineering graduates have gone to work at companies including:


When You Major in Mechanical Engineering

A Mechanical Engineering degree gives you the strategic skills you need, including:

- Computer-Aided Design
- AutoCAD
- SolidWorks (CAD)
- Creo Elements/Pro (Computer-Aided)
- Design Software
Finite Element Methods

UND Mechanical Engineering Major Alumni

Mechanical Engineering alumni have gone on to a variety of successful careers with:

- Seconn Automation Solutions, Inc.
- 3M Company
- Cirrus Design Corporation
- The Boeing Company
- Center for Energy and Environment