Electrical Engineering (B.S./M.S. or M.Eng.)

Get on the fast track with a combined degree program that prepares you for an exciting and rewarding career.

Electrical engineers with graduate degrees have more opportunities and command greater salaries. Work toward both bachelor’s and master’s degrees in electrical engineering under the same structured program, with some courses eligible for double counting.

**Program Snapshot**

**Program type:** Combined (Major and Master’s)

**Format:** On-campus or online

**Est. time to complete:** 4-6 years

**Credit hours:** 149-155

**Why Earn a Combined Degree in Electrical Engineering at UND?**

Advancing your electrical engineering education to a graduate level through a combined program can fast track your options in a society that is increasingly powered. Strong trends like energy efficiency, sustainability, security and health advocacy are driven by those with the right expertise to solve electrical problems.

With the electrical engineering program, you'll benefit from a curriculum that provides the real-world experience you need to succeed with opportunities to:

- Grow your critical thinking skills and develop creative aptitude based on the theory, principles and techniques of electrical engineering.
- Prepare yourself for a rewarding career at top global companies in a range of major industries.
- Develop your teamwork skills as you work alongside students and faculty to solve complex component and device challenges.
- Complete an independent study tailored to your interests.

**Accredited Engineering Program**

The undergraduate electrical engineering program is **ABET** accredited.

**How Combined Electrical Engineering Degrees Work**

If you are an incoming freshman or transfer student, apply to **UND** and your program. As a current student, connect with your advisor to make sure you stay on track for the combined program. During your junior year, you can officially apply to the School of Graduate Studies. Complete the required courses, and you'll earn both your B.S. and graduate degree at the same time.

A M.Eng. program is more course-based, while the M.S. program includes a thesis or research project/independent study.

**Learning to Lead**

At UND, we prepare you for a future that works.

**Undergraduate Application Deadlines**
STUDENTS SEEKING THE COMBINED DEGREE MAY APPLY TO THE SCHOOL OF GRADUATE STUDIES AFTER COMPLETING 60 CREDITS.

Graduate Application Deadlines

<table>
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<tr>
<th>Season</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tr>
<td></td>
<td>Aug. 15</td>
<td>Dec. 15</td>
<td>May 1</td>
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Electrical Engineering Overview

- Work toward bachelor’s and master’s degrees more efficiently in a combined program with credit hours that can be double-counted for certain courses.
- Dive into today’s “hot” technologies: mobile health-monitoring, renewable energy systems, unmanned aerial systems, wireless communications.
- Receive hands-on research opportunities with electrical engineering professionals.
- Participate in the annual NASA Robotics competition at the NASA Kennedy Space Center in Florida.
- Gain support from the U.S. Department of Energy’s National Renewable Energy Laboratory (NREL).
- Choose to focus on aerospace, biomedical engineering or computer science.
- For those who are Active Duty, this program is AU-ABC degree eligible.

Electrical Engineering Careers

**110K**
The median salary for an electrical engineer with a master’s degree is $110,000.*

**13%**
According to the U.S. Bureau of Labor Statistics, engineers in various fields with a master’s degree had a median salary up to 13% higher than their counterparts with a bachelor’s degree.

*U.S. Bureau of Labor Statistics*

As an electrical engineer, you can work in a variety of industries such as electric utilities, manufacturing, telecommunications, engineering consulting firms and the federal government.

University of North Dakota graduates of the electrical engineering program have gone on to work at:

- General Dynamics
- Innovative Laser Technologies
- John Deere
- RF Controls, LLC
- Rockwell Collins
- Software Quality Leaders Inc.
- UTC Aerospace Systems

Beyond preparing you to work in private industry or government, your combined Bachelor of Science and Master’s in Electrical Engineering degree will prepare you for doctoral studies in electrical engineering or related fields.
When You Earn a degree in Electrical Engineering

An Electrical Engineering degree gives you the strategic skills you need, including:

- MATLAB
- Java (Programming Language)
- C++ (Programming Language)
- LabVIEW
- Electronics

UND Electrical Engineering Alumni

Electrical Engineering alumni can expect a range of opportunities in electrical engineering, and many have recently gone onto careers in top regional and global engineering firms like:

- 3M
- Boeing
- Hitachi
- IBM
- Rockwell Collins
- Raytheon