



Enjoy the flexibility and freedom to design your own concentration



Conduct hands-on research in our engineering laboratories



Prepare for your career in a rapidly growing field

# Master of Science in Electrical Engineering

## Prepare for a rewarding career in a cutting-edge field

***As society becomes more reliant on new technology and innovations, we need dedicated electrical engineers committed to helping our communities keep up with these evolving infrastructures. That's why UB's master's in Electrical Engineering program focuses on the critical thinking and problem-solving skills you'll need to conquer the challenges of today — and the unknown challenges of the future. You'll learn all the analytical and technical skills necessary to stand out in this rapidly growing field and adapt to ongoing advancements in engineering.***

### Design your own program

UB's master's in Electrical Engineering puts your career goals at the center of your education. This program has only one required class; the remaining 30 credits are free electives focused on interdisciplinary learning — allowing you the freedom and flexibility to follow your interests and prepare for the specific industry you want to enter. You'll work with your advisor to make a plan of study, including up to four courses that can be taken in the departments of Computer Engineering and Computer Science.

The Electrical Engineering program offers over 50 courses to choose from, including subjects like:

- Electronics
- Fiber optics/networks
- Machine automation
- Medical machines
- Power plant fundamentals
- Renewable energy
- Wireless (cell) communications
- And more!



**Masters of Science in  
Electrical Engineering**

## Utilize cutting-edge technology

At UB, you'll get hands-on experience using state-of-the-art technology and laboratories. You'll work with cutting-edge machinery including nanotechnology and signal analysis equipment. You'll also have access to our Programmable Logic Control lab, where you'll practice assembly line coding. Our expert faculty have decades of experience and will help you develop the knowledge and skills to create the technology of the future.

## Program prerequisites

- Bachelor's degree from an accredited university or recognized international institution
  - Cumulative undergraduate GPA of 2.90 or higher

## Required materials

- Application
- Official transcript for the last degree earned
- Personal statement
- Resumé
- Two letters of recommendation