Increase your bandwidth.

ONLINE MASTER OF SCIENCE IN ELECTRICAL ENGINEERING
At the Russ College, we teach students how to become technical experts who can also think about the big picture. For more than a century, we’ve been teaching engineers how to create for good – how to engineer a better future with responsible and sustainable design. It’s impossible to ignore the impact our graduates have on the world around us.

Why OHIO?

At Ohio University’s Russ College, we recognize the power of technology to simplify life and streamline business operations. To continue to accomplish these goals, of course, electrical engineering challenges will become increasingly complicated, multidisciplinary, and systems-oriented in the future. Our leading reputation was built by always being prepared for what’s to come. We’re ready. Are you?

Join us now to begin a rigorous and relevant education experience. The online Master of Science in Electrical Engineering program is a unique opportunity to join our longstanding learning environment and earn a credible degree from an institution known for translating knowledge into creative solutions with far-reaching impact.

We hope that your life changes as a result of what you learn at the Russ College, so that when you graduate, you’ll be prepared to do work that changes the world. We invite you to become an engineer who creates for good.

Ready to get started or have questions? Call 1-877-273-1291 to speak with an Enrollment Advisor today.
Curriculum Overview

The online M.S. degree in Electrical Engineering requires 36 credit hours. Students can choose the general electrical engineering concentration or a unique focus in Autonomous Unmanned Vehicles, Communications and Digital Signal Processing, Computer Engineering, Electrical Navigation Systems, or Micro Nano Devices and Systems.

**Foundational Courses:**
- Engineering Writing (3 hrs.)
- Computational Tools for Engineers (3 hrs.)
- Vehicle Control Systems (3 hrs.)

**Core Courses:**
- Micro Nano Fabrication (3 hrs.)
- Microwave Theory and Devices (3 hrs.)
- Embedded Systems (3 hrs.)
- Communication Engineering (3 hrs.)
- State Space Methods in Control (3 hrs.)
- Electronic Navigation Systems (3 hrs.)

**Electrical Engineering Courses:**
- Micro Nano Fabrication (3 hrs.)
- Microwave Theory and Devices (3 hrs.)
- Embedded Systems (3 hrs.)
- Communication Engineering (3 hrs.)
- State Space Methods in Control (3 hrs.)
- Design of Digital Circuits (3 hrs.)
- Digital Signal Processing (3 hrs.)

**Autonomous Unmanned Vehicles Courses:**
- Communication Engineering (3 hrs.)
- State Space Methods in Control (3 hrs.)
- Electronic Navigation Systems (3 hrs.)
- Inertial Navigation Systems (3 hrs.)
- Satellite Based Navigation Systems (3 hrs.)
- Embedded Systems (3 hrs.)
- Vehicle Control Systems (3 hrs.)

**Communications and Digital Signal Processing Courses:**
- Microwave Theory and Devices (3 hrs.)
- Embedded Systems (3 hrs.)
- Communication Engineering (3 hrs.)
- State Space Methods in Control (3 hrs.)
- Digital Signal Processing (3 hrs.)
- Computer Communications Network (3 hrs.)
- Information Theory and Coding (3 hrs.)

**Computer Engineering Courses:**
- Micro Nano Fabrication (3 hrs.)
- Embedded Systems (3 hrs.)
- Design of Digital Circuits (3 hrs.)
- Computer Architecture (3 hrs.)
- Computer Communications Network (3 hrs.)
- Information Theory and Coding (3 hrs.)
- Nanoelectric Devices and Applications (3 hrs.)

**Electronic Navigation Systems Courses:**
- Microwave Theory and Devices (3 hrs.)
- Embedded Systems (3 hrs.)
- Electronic Navigation Systems (3 hrs.)
- Inertial Navigation Systems (3 hrs.)
- Satellite Based Navigation Systems (3 hrs.)
- Integrated Navigation Systems (3 hrs.)
- Aviation Standards, Software Design, and Certification (3 hrs.)

**Micro Nano Devices and Systems Courses:**
- Micro Nano Fabrication (3 hrs.)
- Microwave Theory and Devices (3 hrs.)
- Embedded Systems (3 hrs.)
- Design of Digital Circuits (3 hrs.)
- Optoelectronics and Photonics (3 hrs.)
- Computer Architecture (3 hrs.)
- Nanoelectric Devices and Applications (3 hrs.)

About the Russ College of Engineering and Technology at Ohio University

Offering undergraduate and graduate degrees across the traditional engineering spectrum and in technology disciplines such as aviation, computer science, and engineering technology and management, the Fritz J. and Dolores H. Russ College goes beyond technical education to produce meta-engineers and technologists who are poised to lead and influence the world around them.

Russ College of Engineering and Technology was first to articulate and commit to the ideal that engineers and technologists create for good, whereby our students, faculty and researchers work together to improve the human condition and make a sustainable mark on the world via a curriculum focused on collaboration and student professional development. World-class research in avionics engineering is an ongoing focus, with strategic research in transportation infrastructure, energy and the environment, and bioengineering. Named for alumnus Fritz Russ and his wife, Dolores, the College is home of the National Academy of Engineering Russ Prize, the top bioengineering prize in the world.

Accreditation

Ohio University is regionally accredited by The Higher Learning Commission (HLC), a Commission of the North Central Association of Colleges and Schools.

Rankings

**U.S. News & World Report** has ranked Ohio University among the nation’s “Best Colleges” in 2015.

Ready to positively impact the world with an online Master of Science in Electrical Engineering?
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