

## Electrical and Computer Engineering

The field of electrical and computer engineering continues to evolve into an ever-broadening discipline that is rapidly reaching into more aspects of common everyday life. Given the current national academic climate where science, technology, engineering and mathematics (STEM) majors are in short supply, it is of paramount importance that the School continue its mission of educating and preparing the latest generation of electrical and computer engineers through its established ABET accredited undergraduate programs, its growing accelerated master's program, and its traditional master's and doctoral programs.

### BY THE NUMBERS

31

Full-Time  
Faculty

550+

Undergraduate  
Students

120+

Graduate  
Students

Obtain B.S. and M.S. degrees in  
**5 years**

through our  
dual-degree program

### MAJORS

B.S. in Electrical Engineering  
B.S. in Computer Engineering

### Accelerated Dual B.S./M.S. Degree Programs:

B.S. in Computer Engineering/  
M.S. in Electrical and Computer  
Engineering

B.S. in Electrical Engineering/  
M.S. in Electrical and Computer  
Engineering

B.S. in Computer Engineering/  
M.S. in Computer Science

### MINOR

Electrical and Computer Engineering

### CONTACT US

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Devon Energy Hall, Rm. 105  
[www.ou.edu/coe/ece](http://www.ou.edu/coe/ece)



*“When a professor noticed me in class and invited me to join his lab, I discovered the joy of working in the technical boundary between hardware and software. That lab job enabled me to enroll in a five-year accelerated masters in electrical and computer engineering, eventually became my thesis, and led to my first job as a firmware engineer. I’ve continued to chase that boundary between technologies, and now lead a team that leverages hardware accelerators to infuse AI into software solutions.”*

– Mike Hollinger  
Class of 2004, 2005, Electrical and Computer Engineering  
Master Inventor, Distinguished Engineer and CTO, Visual  
and Sensor AI/ML, IBM AI Applications

# Gallogly College of Engineering

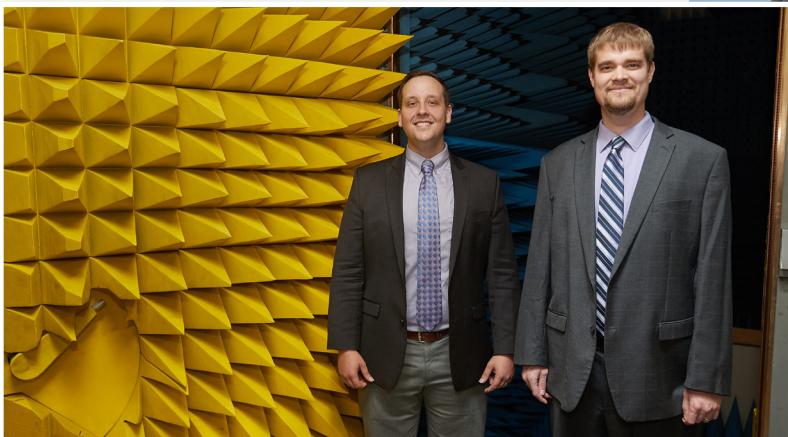
## Electrical and Computer Engineering

### THINGS TO KNOW

**1** The outstanding faculty of the School of ECE specialize in the fields of radar and electromagnetics; medical imaging technology; solid state and photonics; communications; computer and embedded systems; signals, systems, and controls; and power and energy systems. These focus areas provide opportunity for students to engage in specialized learning to gain research experience in areas of targeted interest. Such experience often proves invaluable in building one's engineering skillset.

**2** ECE operates one of the strongest research departments on campus, which is one of the best indicators of program health and relevance. The School averages more than \$10M in research expenditures annually and this places OU's School of ECE among the top programs in the nation. Students have the opportunity to learn from some of the best minds in the world and to experience, firsthand, research at the cutting edge.

**3** One of the critical aspects of any undergraduate engineering program centers on its teaching lab sequence, which provides the knowledge and skills necessary to compete in the job market and to solve today's challenging problems. ECE provides a strategically designed lab sequence that carefully leads students through an introduction to digital circuits, analog circuits and electronics, advanced digital design, and terminates in a senior-level, real-world capstone project.



ECE faculty, Jay McDaniel, Ph.D. and Justin Metcalf, Ph.D., in the Anechoic Chambers at the Advanced Radar Research Center

**4** Student organizations and competition teams offer a great avenue for students to enhance their leadership abilities, further develop team skills, and hone their engineering knowledge and capability. ECE supports and participates in numerous student-led organizations and competition teams: Aviation and Navigation Team, Beta Xi student chapter of the Institute of Electrical and Electronics Engineers Inc. (IEEE), Graduate Student Senate (ECE branch), IEEE Microwave Theory and Techniques Society Student Branch, Sooner Competitive Robotics, Sooner Off-road, Sooner Rover, Students for the Exploration and Development of Space, and Women in Electrical and Computer Engineering.

**5** ECE graduates are actively recruited by a multitude of employers such as Amazon, AT&T, Boeing, ConocoPhillips, Google X, IBM, John Deere, NASA, National Instruments, Northup Grumman, OG&E, Raytheon, Spiers New Technologies, and Tinker Air Force Base.



Devon Energy Hall