

# MASTER OF SCIENCE IN THE FIELD OF ELECTRICAL ENGINEERING (STEM, ONLINE)

GW's online master of science in electrical engineering is designed for students seeking to advance their expertise in the field. Taught by world-class faculty, graduates of this program are well-equipped to tackle complex engineering challenges and pursue a variety of paths towards rewarding careers. The advanced degree program also provides a foundation for those interested in pursuing academic research or doctoral studies in electrical engineering or related fields.

This is a STEM designated program.

Visit the program website (<https://online.engineering.gwu.edu/online-master-science-electrical-engineering/>) for additional information.

The MS in electrical engineering program is also offered in an on-campus (<https://bulletin.gwu.edu/engineering-applied-science/electrical-computer-engineering/electrical-engineering/>) format.

## REQUIREMENTS

The following requirements must be fulfilled: 30 credits in required courses.

Code	Title	Credits
Required		
ECE 6045	Special Topics in Electrical Engineering (Foundations of Electrical Engineering)	
ECE 6045	Special Topics in Electrical Engineering (Power System Harmonics and EMI)	
ECE 6070	Electrical Power Systems	
ECE 6610	Electrical Energy Conversion	
ECE 6662	Power Electronics	
ECE 6667	Nuclear Power Generation	
ECE 6669	Smart Power Grids	
ECE 6670	Power System Protection	
EMSE 6769	Applied Machine Learning for Engineers	
EMSE 6820	Program and Project Management	