

MASTER OF SCIENCE IN THE FIELD OF TELECOMMUNICATIONS ENGINEERING

9 credits in elective courses.

Additional program requirements can found on the Department of Electrical and Computer Engineering Master's Degree requirements (<https://www.ece.seas.gwu.edu/masters-program-degree-requirements>) webpage.

The master of science in the field of telecommunications engineering degree program is designed for the practicing or aspiring telecommunications engineer. The program provides students with a foundation in the fundamentals of telecommunications engineering, including topics such as transmission systems, computer networking, network architectures and protocols, and telecommunications security protocols. In addition, students have the option to take courses on optical networking, wireless networking, and cloud computing.

Specific admission requirements are shown on the Graduate Program Finder (<http://www.gwu.edu/all-graduate-programs>).

Visit the program website (<http://www.ece.seas.gwu.edu/master-science-telecommunications-engineering>) for additional information.

REQUIREMENTS

The following requirements must be fulfilled: 30 credits, including 21 credits in required courses and 9 credits in elective courses. Thesis and non-thesis options are available; students should contact the department concerning these options.

Code	Title	Credits
Required		
ECE 6035	Introduction to Computer Networks	
ECE 6550	Network Architectures and Protocols	
ECE 6565	Telecommunications Security	
ECE 6575	Optical Communication Networks	
ECE 6580	Wireless Networks	
Two of the following:		
ECE 6005	Microcomputer Systems Architecture	
ECE 6015	Stochastic Processes in Engineering	
ECE 6130	Big Data and Cloud Computing	
ECE 6560	Network Performance Analysis	
ECE 6570	Telecommunications Security Protocols	
Electives		