

GRADUATE CERTIFICATE IN 5G AND BEYOND

The 5G and beyond graduate certificate program is designed for current and prospective telecommunication professionals, wireless engineers, and research scientists who wish to gain technical expertise and become fluent in new-generation wireless communications and networks. Upon completion of the program, graduates will possess a sound, up-to-date technical background in modern wireless systems.

All courses are held in a hybrid format combining online and in-person teaching activities taking place on George Washington University's main campus in the Foggy Bottom neighborhood of Washington, DC. Courses are typically held in the late afternoon or early evening to accommodate working professionals.

REQUIREMENTS

The following requirements must be fulfilled: 12 credits, including 9 credits in required courses and one 3-credit selective course.

Code	Title	Credits
Required		
ECE 6015	Stochastic Processes in Engineering	
ECE 6510	Communication Theory	
ECE 6520	Mobile and Wireless Communication Systems	
And one of the following:		
ECE 6020	Applied Electromagnetics	
ECE 6580	Wireless Networks	
ECE 6760	Propagation Modeling in Wireless Communications	