

# WIRELESS COMMUNICATION SYSTEMS (GRADUATE CERTIFICATE)

<https://ceps.unh.edu/electrical-computer-engineering/program/certificate/wireless-communications-systems>

## Description

Wireless communication systems play a central role in today's technological ecosystem. They connect people and devices in diverse environments, from homes, to businesses, to roads, to battlefields. This certificate program will provide students with the fundamental concepts necessary to understand and work with various aspects of wireless communication systems, from antennas, to modeling electromagnetic propagation, to signal processing, to multiple-antenna communications.

Applicants must hold a baccalaureate degree from an accredited college or university. Degrees in Physics, Electrical Engineering, Computer Engineering, related engineering field preferred.

## Requirements

The program of study required for the certificate consists of at least four courses totaling **12 credits**.

Code	Title	Credits
<b>Required Courses</b>		
ECE 901	Electromagnetic Wave Theory I	3
ECE 920	Wireless Communication Systems	3
<b>Electives</b>		
Select two of the following		
ECE 814	Introduction to Digital Signal Processing	4
ECE 824	Ubiquitous Computing Fundamentals	4
ECE 924	Ubiquitous Computing	3
ECE 900A & ECE 900B	Research and Development from Concept to Communication I and Research and Development from Concept to Communication 2	4
ECE 941	Digital Signal Processing	3
ECE 960	Computer Architecture	3