# Electronics and Electrical Engineering

## Master of Science

## Description

The Master of Science in Electronics and Electrical Engineering provides an advanced degree for students seeking rewarding industry careers or further research study. Entering students will typically possess an undergraduate bachelor's degree in electronics and electrical engineering. Carolina University's engineering program integrates internships and work-integrated learning as essential components in order to build workplace skills and enhance employability.

Students are required to complete 36 credits over two years to graduate with the MS in Electronics and Electrical Engineering. Courses in the program include Power Electronics, Control Systems, and wireless communications.

Carolina University offers attractive scholarships in its engineering program. These awards are based on academic excellence and need.

## Admissions Requirements

- A bachelor's degree or equivalent from a recognized college or university
- GPA of 2.7 or higher
- Official transcripts from all previously attended schools
- Completed application with Carolina University

## Degree Requirements

- The maximum time limit to complete the program is five years or 150% of the credits, whichever the student reaches first.
- A minimum of 15 credit hours must be completed at CU.
- Up to 50% of the required credit hours can be transferred.
- Graduation is contingent upon the completion of prescribed courses with a minimum cumulative GPA of 3.00.

## Courses

### Program Core Classes

DCS 630  - Algorithms for Data Science
3 Credit Hours
DCS 635  - Machine Learning
3 Credit Hours
ELE 510  - Sensor Networks
3 Credit Hours
ELE 520  - Linear Integrated Circuits
3 Credit Hours
ELE 530  - Digital Circuits

3 Credit Hours
ELE 540  - Micro-Fabrication of WirelessCommunication
3 Credit Hours
ELE 550  - Java Programming for Micro-Fabrication
3 Credit Hours
ELE 570  - Micro-Fabrication within Drones
3 Credit Hours
ELE 580  - Artificial Intelligence forMicro-Fabrication
3 Credit Hours
ELE 690  - Project/Thesis I
3 Credit Hours
ELE 695  - Project/Thesis II
3 Credit Hours
ENG 510  - Embedded Systems
3 Credit Hours