# Electronics and Electrical Engineering

## Master of Science

## Description

The Master of Science (MS) in Electronics and Electrical Engineering program equips students to tackle societal challenges using advanced engineering, math, and science knowledge. Students will analyze complex data, conduct experiments, and apply ethical and professional judgment. Our holistic approach integrates social, environmental, and sustainability factors, preparing you to lead in diverse contexts. With a blend of coursework and internships, students gain practical skills and a commitment to lifelong learning. This program is designed for those with a background in electronics and electrical engineering who want to advance their career and make a meaningful impact on the world.

## Admissions Requirements

- A bachelor's degree or equivalent from a recognized institution
- Credentials earned outside of the US must be evaluated by an approved agency
- GPA of 2.7 or higher
- Official transcripts from all previously attended institutions
- Completed application with Carolina University

## Graduation Requirements

- Shall have maintained a minimum cumulative GPA of 3.0;
- Shall have passed all courses in the curriculum and made a C or better professional core courses;
- Shall have completed at least six of the final nine hours with Carolina University.

## Courses

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