

# 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 Wireless Communication](#)

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 for Micro-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