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 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