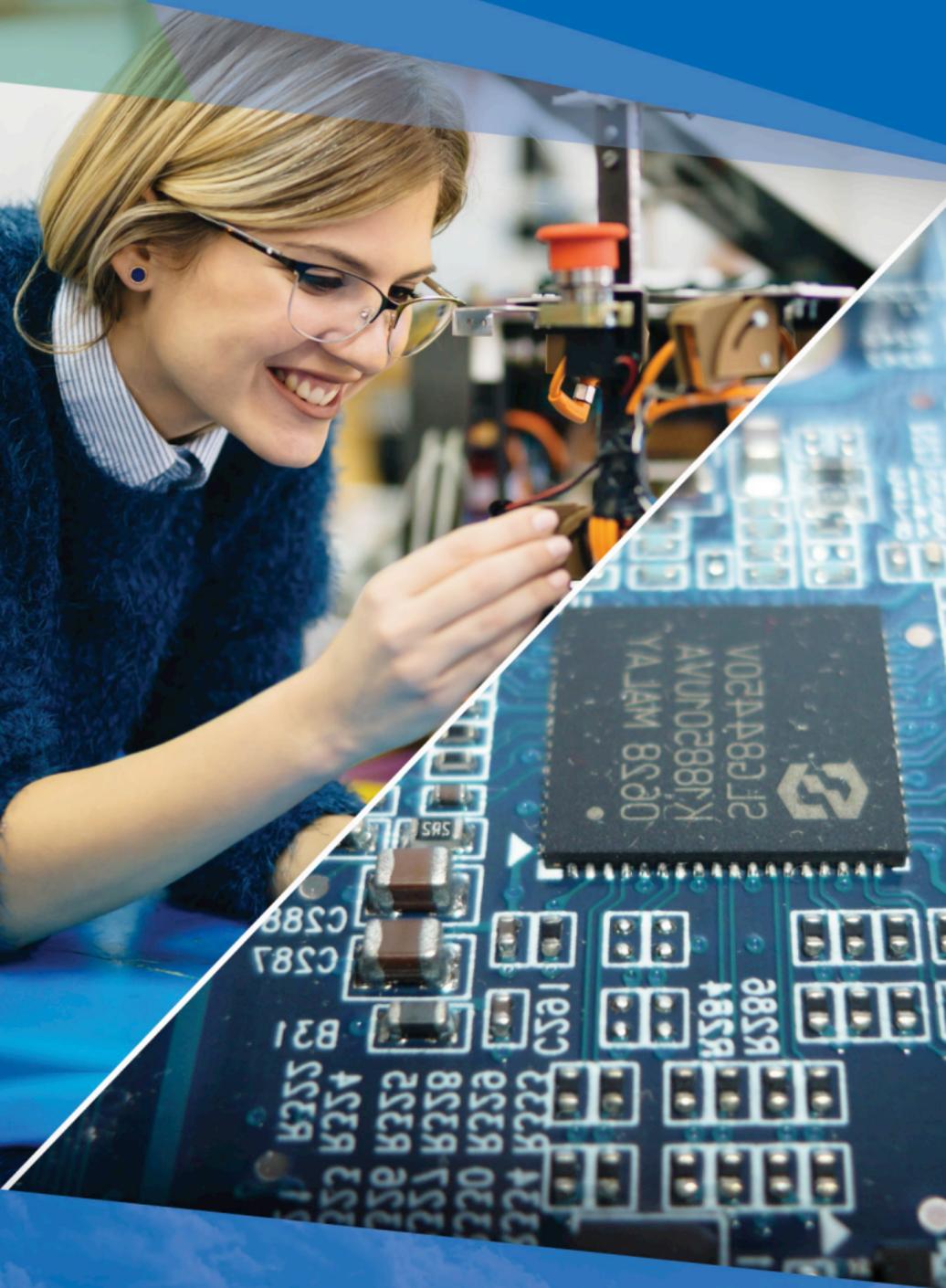


# ELECTRICAL ENGINEERING



GARRETT  COLLEGE

EXPERIENCE. EXPLORE. EXCEL.

[WWW.GARRETTCOLLEGE.EDU](http://WWW.GARRETTCOLLEGE.EDU)

# ELECTRICAL ENGINEERING

Electrical engineers design, develop, and test electrical equipment, components, or systems for commercial, industrial, military, or scientific use. This field involves working with all manner of electronic devices including, pocket calculators, cell phones, lasers, hybrid cards, and supercomputers, to name a few. A college degree in electrical engineering will open the door to a career in almost any industry. Electrical engineering students learn through a combination of design and lab work. This mix of theory and practical application prepares students to apply mathematical and scientific principles to design, development, and operational evaluation of electrical and electronic systems and their components.

## **Associate of Science in Engineering (ASE) Program:**

The Associate of Science in Engineering (ASE) – Electrical Engineering at Garrett College is designed as a two-year transfer program that prepares students to transfer to four-year institutions to pursue a bachelor's degree in Electrical Engineering or other engineering majors. The curriculum is built around a strong basic core of mathematics, the sciences including chemistry and physics, and computer technology. Students will gain knowledge of engineering theory through engineering courses and the application of theory to real-world problems. The program will provide the student with hands-on experience in the design, development, implementation, and management of projects and in the communication and presentation of their ideas and project plans.

## **Program Requirements:**

**To earn the ASE program degree from Garrett College, students must complete the following coursework:**

- ▶ General education requirements
- ▶ Physics I & II (Calculus based)
- ▶ Chemistry I
- ▶ Calculus I, II, III and Differential Equations
- ▶ Engineering courses:
  - ENR100 Intro to Engineering Design
  - ENR210 Basic Circuit Theory
  - ENR211 Electrical & Digital Circuit Lab
  - ENR230 Scientific Engineering
  - ENR240 Digital Logic Design
  - ENR 241 Digital Logic Design Lab



*For more information, please contact:*

**Paul Rached**

301.387.3077

**[paul.rached@garrettcollege.edu](mailto:paul.rached@garrettcollege.edu)**

*Garrett College does not discriminate on the basis of race, ethnicity, religion, gender, age, sexual orientation, veteran status, or physical or mental disability with respect to admission, access to courses, or student-related policies and procedures.*