Electrical and Computer Engineering program at AIU

The program's educational objectives and the Student's Outcomes

Within a few years after graduation, graduates of the ECE program are expected to:

1. Practice and innovation: Apply electrical and computer engineering knowledge to analyze, design, and deliver innovative solutions to complex problems in industry, government, or research, addressing societal and global needs.
2. Responsibility and leadership: Advance into leadership roles and work effectively in diverse, multidisciplinary teams, upholding ethical and professional responsibility and accounting for global, cultural, social, and environmental impacts.
3. Lifelong learning and development: Sustain professional growth through continued study, certification, licensure, or research, adapting to emerging technologies in electrical and computer engineering.

The Electrical and Computer Engineering Program is designed to provide students with the ability to:

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- An ability to develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Electrical engineering is a practical discipline with a plethora of great career opportunities. Electrical and electronics engineers can work in research and development industries, engineering services firms, manufacturing, government, and tech.

