

Bachelor of Science Degree in Electrical Engineering

Educational Objectives

1. Graduates will obtain quality employment in electrical engineering, computer engineering, or related fields resulting in personal and professional satisfaction.
2. Graduates will function successfully in an engineering environment that involves planning, design, and other engineering assignments with consideration of economic, environmental, sustainability, and safety factors.
3. Graduates will exhibit strong ethics, leadership and professionalism in their careers, and will communicate effectively.
4. Graduates will demonstrate commitment to life-long learning by actions such as pursuing graduate studies, participating in professional development activities, or being actively involved in professional societies.

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Desired Program Outcomes

- a.** Ability to apply knowledge of mathematics; Ability to apply knowledge of science; Ability to apply knowledge of engineering.
- b.** Ability to design experiments; Ability to conduct experiments; Ability to analyze and interpret data.
- c.** Ability to design a system or process to meet desired needs; Ability to design a component to meet desired needs.
- d.** Ability to function on multi-disciplinary teams.
- e.** Ability to identify engineering problems; Ability to formulate engineering problems; Ability to solve engineering problems.
- f.** An understanding of professional responsibility; an understanding of ethical responsibility.
- g.** Ability to communicate effectively.
- h.** The broad education necessary to understand the impact of engineering solutions in a global and societal context.
- i.** Recognition of the need for, and an ability to engage in life-long learning
- j.** Knowledge of contemporary issues.
- k.** Ability to use the techniques necessary for engineering practice; Ability to use the skills necessary for engineering practice; Ability to use the modern engineering tools necessary for engineering practice.

Our program outcomes are derived directly from ABET items (a) through (k) in Criterion 3.