

USF ELECTRICAL ENGINEERING

MISSION STATEMENT

The mission of the Electrical Engineering Department is to provide internationally recognized educational programs; to conduct and disseminate internationally recognized research benefiting humanity; to provide service to society; and to emphasize the need for lifelong learning, ethical conduct and an understanding of the diverse societal context in which engineering is practiced.

OBJECTIVES

1. To produce graduates with the knowledge and skills necessary to enter and establish a career as an Electrical Engineer.
2. To produce graduates who can pursue and complete advanced studies.

OUTCOMES:

Our electrical engineering graduates will have:

- a. An ability to apply knowledge of basic math, science and engineering.
- b. An ability to design and conduct experiments, as well as analyze and interpret data .
- c. An ability to design a system, component, or process to meet desired needs.
- d. An ability to function on multi-disciplinary teams.
- e. An ability to identify, formulate and solve engineering problems.
- f. An understanding of professional and ethical responsibility.
- g. An ability to communicate effectively.
- h. The broad education necessary to understand the impact of engineering solutions in a global & societal context.
- i. Recognition of the need for, and an ability to engage in lifelong learning.
- j. Knowledge of contemporary issues.
- k. An ability to use techniques, skills and modern engineering tools necessary for engineering practice.
- l. Knowledge of probability & statistics and advanced mathematics (e.g., calculus, DE, linear algebra, complex variables & discrete mathematics)
- m. Knowledge of basic and engineering science necessary to analyze and design complex electrical/electronic hardware/software devices and systems.