

Electrical Engineering

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Bachelor's Program

Mission Statement

The mission of the undergraduate program in Electrical Engineering is to offer an E.E. program of study that augments the liberal education expected of all FAU undergraduates and imparts a basic understanding of electrical engineering built on a foundation of physical science, mathematics, computing and technology.

Educational Objectives and Outcomes

The educational objectives of the Electrical Engineering undergraduate program are to enable graduates who, within a few years after graduation willto:

- A. Be successful in understanding, formulating, analyzing and solving a variety of electrical engineering problems;
- B. Be successful in designing a variety of engineering systems, products or experiments;
- C. Be successful in careers and/or graduate study in engineering or other areas such as business, medicine and law;
- D. Have the ability to assume leadership and entrepreneurial positions;
- E. Successfully function and communicate effectively, both individually and in multidisciplinary teams;
- F. Understand the importance of lifelong learning, ethics and professional accountability.

The educational objectives of the Electrical Engineering program are achieved by ensuring that graduates have the following characteristics or student outcomes:

- 1. An ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics.
- 2. An ability to apply both analysis and synthesis in the engineering design process, resulting in designs that meet desired needs.
- 3. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- 4. An ability to communicate effectively with a range of audiences.

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5. 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.
6. An ability to recognize the ongoing need for additional knowledge and locate, evaluate, integrate, and apply this knowledge appropriately.
7. An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.