

Educational Objectives & Student Outcomes for both the B.S. in Electrical Engineering Program, and the B.S. in Computer Engineering Program.

Electrical Engineering

The program educational objectives for the B.S. in Electrical Engineering program at Florida Tech are:

1. To produce graduates who will establish themselves as practicing professionals or who will engage in advanced studies in engineering or a related field.
2. To produce graduates who will display awareness of the importance of and opportunities for life-long learning.
3. To produce graduates who will excel in the global marketplace.
4. To produce graduates who will demonstrate the ability to work successfully as members of professional teams and function effectively as responsible professionals.

The student outcomes for the B.S. in Electrical Engineering program at Florida Tech are:

- a) an ability to apply knowledge of mathematics, science, and engineering
- b) an ability to design and conduct experiments, as well as to analyze and interpret data
- c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- d) an ability to function on multidisciplinary 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, economic, environmental, and societal context
- i) a recognition of the need for, and an ability to engage in life-long learning
- j) a knowledge of contemporary issues
- k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Enrollment and Graduation Data for the B.S. in Electrical Engineering Program

Annual [student enrollment and graduation data](#) for the B.S. in Electrical Engineering program are provided by Florida Tech's Office of Institutional Research.

Computer Engineering

The program educational objectives for the B.S. in Computer Engineering program at Florida Tech are:

1. To produce graduates who will establish themselves as practicing professionals or who will engage in advanced studies in engineering or a related field.
2. To produce graduates who will display awareness of the importance of and opportunities for life-long learning.
3. To produce graduates who will excel in the global marketplace.
4. To produce graduates who will demonstrate the ability to work successfully as members of professional teams and function effectively as responsible professionals.

The student outcomes for the B.S. in Computer Engineering program at Florida Tech are:

- a) an ability to apply knowledge of mathematics, science, and engineering
- b) an ability to design and conduct experiments, as well as to analyze and interpret data
- c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- d) an ability to function on multidisciplinary 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, economic, environmental, and societal context
- i) a recognition of the need for, and an ability to engage in life-long learning
- j) a knowledge of contemporary issues
- k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Enrollment and Graduation Data for the B.S. in Computer Engineering Program

Annual [student enrollment and graduation data](#) for the B.S. in Computer Engineering program are provided by Florida Tech's Office of Institutional Research.