

ECE 1900: Freshman Seminar

Credits and Contact Hours: 0.5 Credit Hours
15 weeks: One 50-minute seminar per week

Instructor's Name: Neil Cotter

Text Book(s) and/or Required Material: None

Catalog Description: An informational seminar for students who want to learn more about electrical and computer engineering. Weekly seminars will present information about careers, academic requirements, ECE Department activities, research, and more.

Prerequisites: None

Designation: Required

Contribution of Course to Meeting the Requirements of ABET Criterion 5: Engineering sciences and engineering design: This is a core electrical engineering course that introduces students to electrical engineering and computer engineering.

Specific Outcomes of Instruction: In this course, students will be prepared to:

1. Understand what to expect in an Electrical Engineering or Computer Engineering career.
2. Plan their academic schedule for the freshman year.
3. Understand opportunities for studying abroad.
4. Understand what to expect from graduate school.
5. Build and solder simple circuits.

Relationship of the Course to the Program Outcomes:

- (g) *An ability to communicate effectively in written and oral form.* Since communication skills are personal traits, the students do not learn by doing this in class; rather, they learn by seeing how professional engineers and other speakers present information to others in the field.
- (h) *The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.* Students hear presentations from groups such as Engineers Without Borders and Society of Women Engineers.
- (j) *A knowledge of contemporary issues.* Students hear from professors about current research projects in electrical and computer engineering.
- (k) *An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.* Students learn to solder.

Topics Covered in the Course:

The effort is made to cover as broad a selection of relevant topics as possible to introduce students to the fields of electrical engineering and computer engineering.