

EEL 3012 Electrical Engineering Practice

Credits: 1

Text book, title, author, and year:

Engineering Ethics, 4/E

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ISBN-10: 0132145219

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Supplemental materials: Instructor handouts and presentations (available on Blackboard)

Specific course information

Catalog description: Codes and Standards - IEEE, ANSI, UL, ISO; IEEE Code of Ethics; Professional and ethical responsibility of electrical engineers; Impact of engineering solutions in a global and societal context; Contemporary EE issues; Life-long Learning; Case studies.

a. **Prerequisites:** *EGN 1002*

b. **Required, elective, or selected elective:** required

Specific goals for the course

Specific outcomes of instruction:

By the end of the course the student will; (i) work effectively as a team member on a project team; (ii) demonstrate knowledge of proper study skills and time management habits; (iii) demonstrate the ability to communicate effectively orally and in writing a report; (iv) demonstrate understanding of the problem solving process; (v) describe the ethical and professional responsibilities of the electrical engineer; (vi) make and defend ethical judgments in keeping with professional standards.

Brief list of topics to be covered:

1. Avenues for EE.
2. Codes and Standards
3. Engineering Ethics
4. Graduate Education
5. Lifelong Learning
6. Professional Registration
7. Safety and Risk
8. Technical Presentations