

ECE3006 Course Syllabus

ECE3006

Co-Curricular Professional Communications for ECE (0-0-0-0)

CMPE Degree

This course is Elective for the CMPE degree.

EE Degree

This course is Elective for the EE degree.

Lab Hours

0 supervised lab hours and 0 unsupervised lab hours

Prerequisites

ECE 2031 [min C]

Corequisites

None

Catalog Description

This course documents student completion of ECE professional communications requirement through workshops, seminars, research projects, co/extra-curricular activities, etc.

Textbook(s)

No Textbook Specified.

Course Outcomes

Upon successful completion of this course, students should be able to:

1. Recognize the basic conventions of technical writing and the discipline-specific features of engineering documents.
2. Identify structure, organization, and content of common engineering documents: proposals, technical reports, instruction guides, comparison papers
3. Work individually and in teams to write documents with audience-appropriate content and proper formatting, spelling, punctuation, grammar, and usage.
4. Integrate text and visuals to clearly convey complex technical information.
5. Revise documents for content, organization, and writing style.
6. Work individually and in teams to develop and deliver effective oral presentations with significant technical content using presentation software.
7. Provide feedback to peers on their writing, speaking, and teamwork abilities.

Student Outcomes

In the parentheses for each Student Outcome:

"P" for primary indicates the outcome is a major focus of the entire course.

"M" for moderate indicates the outcome is the focus of at least one component of the course, but not majority of course material.

"LN" for "little to none" indicates that the course does not contribute significantly to this outcome.

1. (LN) An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

2. (LN) An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. (P) An ability to communicate effectively with a range of audiences
4. (M) 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
5. (LN) An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. (LN) An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. (M) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Topical Outline

ECE 3006 is a marker course that documents student satisfaction of

Students must successfully complete a minimum number of three (3) C

1 writing assignment (~ 5-7 pages)

1 presentation (PowerPoint, poster ~10 minute talk)

1 elective communication activity (presentation and writing task)