

ECE 3090: Technical Writing and Presentations

Course Description

Technical writing and communications skills.

Transcript Abbreviation: Tech Writ & Pres

Grading Plan: Letter Grade

Course Deliveries: Classroom

Course Levels: Undergrad

Student Ranks: Junior, Senior

Course Offerings: Autumn, Spring

Flex Scheduled Course: Never

Course Frequency: Every Year

Course Length: 7 Week

Credits: 1.0

Repeatable: No

Time Distribution: 2.0 hr Lec

Expected out-of-class hours per week: 4.0

Graded Component: Lecture

Credit by Examination: No

Admission Condition: No

Off Campus: Never

Campus Locations: Columbus

Prerequisites and Co-requisites: Prereq: 2100, 2100.02, 2100.07, 2100.08, 2127, 2137, 292, or 294 (Spring 2011) or 205, and credit for a second writing course, and enrollment in ECE major.

Exclusions: Not open to students with credit for 582.

Cross-Listings:

Course Rationale: Existing course.

The course is required for this unit's degrees, majors, and/or minors: Yes

The course is a GEC: No

The course is an elective (for this or other units) or is a service course for other units: No

Subject/CIP Code: 14.1001

Subsidy Level: Baccalaureate Course

Programs

Abbreviation	Description
CpE	Computer Engineering
EE	Electrical Engineering

Course Goals

Learn principles of effective technical writing
Learn how to present data effectively
Learn how to give an effective technical presentation

Course Topics

Topic	Lec	Rec	Lab	Cli	IS	Sem	FE	Wor
Editing, polishing and organizing technical reports	2.0							
Technical descriptions	2.0							
Writing instructions	2.0							
Reporting and presenting of data	2.0							
Technical presentation skills	2.0							

Representative Assignments

Polish a report written for a previous technical course.
Write a definition of an electrical component.
Write instructions for a process or manual.
Oral presentation explaining a lab done in a previous course.

Grades

Aspect	Percent
Writing assignments	75%
Oral presentations	25%

Representative Textbooks and Other Course Materials

Title	Author
<i>Technical Communication, 12th edition, Person Longman</i>	John Lannon and Laura Gurak ISBN 978-0-205-77964-2

ABET-EAC Criterion 3 Outcomes

Course Contribution		College Outcome
**	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.
*	d	An ability to function on multi-disciplinary 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 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.

Additional Notes or Comments

Add exclusion for ECE 582.

Added "or 292 or 294 (Spring 2011) " to prereqs 4/11/12

Corrected textbook 11/8/12

Added transfer student courses to prereqs 10/20/13

Make consistent with university tool 2/13/14

Prepared by: Betty Lise Anderson