

# 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:** 14 Week

**Credits:** 1.0

**Repeatable:** No

**Time Distribution:** 1.0 hr Lec

**Expected out-of-class hours per week:** 2.0

**Graded Component:** Lecture

**Credit by Examination:** No

**Admission Condition:** No

**Off Campus:** Never

**Campus Locations:** Columbus

**Prerequisites and Co-requisites:** Prereq: 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

Master principles of effective technical writing, including citation of sources
Master presenting data effectively
Master giving an effective technical presentation
Be familiar with teamwork and collaborative development of communication

## 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

Write a technical lab report
Write a description of an electrical component
Write instructions for a process or manual
Oral presentation explaining a technical subject

## Grades

Aspect	Percent
Participation assignments	9%
Peer reviews of assignments	13%
Technical Description	13%
Instructions	13%
Data graphic/diagram	13%
Test report	13%
Technical presentation (team)	13%
Presentation visual aid (individual contributions)	13%

## Representative Textbooks and Other Course Materials

Title	Author
<i>Technical Communication</i>	John Lannon and Laura Gurak

## 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

Update goals and representative assignments from course supervisor's and USC's reviews for ABET 7/3/14 - gjv

Update prereqs to allow students to take it earlier. 10/5/15 BLA

Updated contributions to outcomes a) and d) and grading breakdown. Recommendations from spring 2016 course and curriculum review. 6/2/16 - gjv

updated text info, 5/10/17, CED

Update course goals and assignments 8/2/17 BLA

Change to 14 weeks and update course goals 10/3/17 BLA/TJR

**Prepared by: Betty Lise Anderson**