

ENGR 110: Introduction to Engineering (2.0 Units)



Instructor: Dillon Allen
Email: dillona@cos.edu
Office Hours: M/W/F: 10:00 am – 11:00 am
M: 1:00 pm – 3:00 pm

Office: JM 230
Phone: 737-4894

Welcome: Welcome to Engineering 110. This course is meant to give Engineering majors, such as yourselves, an introduction to the field of engineering. In this course, we will look at the major of engineering, the workplace disciplines, how to succeed in college and in the workplace, and much more. I am very excited to share with you the skills to succeed in the world of Engineering.

Text: No Textbook Required for this course.

- SLO's:**
- Given a design challenge and access to materials to complete this challenge, students will be able to work in teams to successfully complete the design by meeting or exceeding the minimum design criteria.
 - Given sources of information about the disciplines within Engineering, students will be able to write about and discuss the area of responsibilities, typical types of work, income, and qualifications for at least two engineering disciplines.
 - Given an engineering ethics case study, students will be able to suggest the appropriate ethical actions based on engineering codes of ethics.

Homework: There will be homework assignments given out at the end of every class session on Wednesday. The completed assignment will be due the following Tuesday night at 11:59pm on Canvas.

Quizzes: There will be a quiz at the start of class every class session. These are meant to reinforce the concepts and material covered in the previous week.

Project: This class will have a project due by the final date and will take the place of the final exam. This will be discussed more on Week 4. You can form a group with up to 3 total members and must be communicated to me by the end of Week 4. Upon discussion of the project, you will be given a list of topics and guidelines.

Evaluation:	Homework	20%	Scale:	90-100%	A
	Quizzes	20%		80-89%	B
	Final Project	60%		70-79%	C
				60-69%	D
				Below 59%	F

Attendance: This class is an in-person class. Although I will not be taking attendance, there will be quizzes that are used to make sure you are keeping up with the reading and assignments.

Course Schedule

Week 1	Introduction to the major, expectations Lab: Find a team for the semester.
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	HW: Engineering Goals
Week 2	Design Lab Challenge
	HW: Types of Engineering
Week 3	Engineering Ethics
	Lab: Project Announcement
	HW: Ethics Assignment
Week 4	Engineering Education Outline
	Lab: Bill of Materials (BOM), Outline 2
	HW: Cold Email, Education Plan
Week 5	Engineering Design Documents (EDD)
	Lab: Introduction to SolidWorks, Quiz 1
	HW: EDD analysis
Week 6	AGILE Methodology
	Lab: AGILE Lab, Final Prototype Drawing
	HW:
Week 7	Excel and Dashboard Creation
	Lab: Excel Dashboard Creation
Week 8	Problem Solving Day
	HW: Advanced Problem Solving
	Quiz
Week 9	Project Demo Day!
	Project reflection due end of class.

Conduct: Please refer to the Catalogue or Student Handbook for Code of Student Conduct. Cheating is a violation of the Code of Student Conduct and will not be tolerated in class; to do so may result in a grade of "F". It can lead to permanent expulsion from this college. Cheating includes allowing someone to copy from your work.

****You may not use a Calculator that has a Qwerty keypad on the exams.**