

ENGR 001: Engineering Graphics (4.0 Units)



Instructor: Dillon Allen
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Office Hours: M/W/F: 10 am – 11 am
M: 1 pm – 3 pm

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Welcome: Welcome to Engineering Graphics. In this course, we will cover the fundamentals of drafting and computer-aided design (CAD). The first few weeks of class will focus on the fundamentals of drafting and drawing, and the rest of the course will utilize SolidWorks. Please note that this syllabus is subject to change, where a new syllabus will be provided and discussed upon any major revisions.

How to Succeed: This class will have some quizzes, exams and projects. The most important takeaway for you is to be in clear communication with your classmates and myself. Please feel free to come to me at any time with any concerns, class-specific or not.

Text: Engineering Graphics with SOLIDWORKS 2025, David C. Planchard

Software The software for this course will be SolidWorks. Further down the semester an access key will be provided to download the software for your personal use for this course. If you do not have a laptop or computer at home, we have laptops for student use that have SolidWorks already installed. Please contact me with any other concerns.

- SLO's:**
- Given an engineering drawing, students will be able to apply dimensions and tolerances according to engineering standards and practices.
 - Given an actual object or a dimensioned drawing, students will be able to use computer-aided-drafting (CAD) software to create 3D models and assemblies, and 2D Multiview drawings.
 - Given a dimensioned pictorial drawing, students will be able to apply the rules of orthographic projection to create a Multiview drawing.

Homework: Throughout the semester there will be some homework assignments given and designs meant to be taken home to work on over the course of the week. This will be discussed as time goes on, and guidelines will be supplied with every assignment and design.

Labs: Each Friday of class there will be a lab where you will demonstrate your knowledge on the course content from that week.

Project: This class will have a project due by the final. Upon discussion of the project, you will be given a list of topics and guidelines.

Exams: There will be a couple exams for this course and a final. As the class progresses, more information will be released. These exams will be focused on testing basic knowledge of drafting and SolidWorks and will not be something to dread. If you have any concerns about exams, please contact me at any time.

Evaluation:	Labs	40%	Scale:	90-100%	A
	Homework	5%		80-89%	B
	Project	30%		70-79%	C
	Exams	15%		60-69%	D
	Quizzes	10%		Below 59%	F

Attendance: This class is an in-person class. Although I will not be taking attendance, this course is primarily hands-on, and your presence will be needed to get a better grasp of the material.

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.**