

Course Information

Semester & Year: Spring 2020

Course ID & Section #: DT-23 (E7969)

Instructor's name: Joan Carpenter

Day/Time: Tue/Thur 6:05pm to 8:35pm

Location: AT105

Number of units: 3

Instructor Contact Information

Office location or *Online: AT105

Office hours: Tue/Thur 8:35pm to 9:05pm

Phone number: N/A

Email address: joan-carpenter@redwoods.edu

Required Materials

Textbook title: N/A

Edition: N/A

Author: N/A

ISBN: N/A

Other requirement: Mechanical Pencils with HB type lead (Size 05mm and 0.9mm lead). Clear plastic Straight Edge with inches scale approximately six inches long.

Catalog Description

A study of engineering design graphics for engineers and drafters with an emphasis on technical drawings and an introduction to computer-aided design (CAD). Topics include the development of visualization skills; orthographic projections; dimensioning and tolerancing practices; and the engineering design process. Assignments develop sketching and 2-D and 3-D CAD skills. The use of CAD software is an integral part of the course.

Course Student Learning Outcomes *(from course outline of record)*

1. Develop orthographic projections, isometrics, obliques, and perspective pictorial representations of designs using CAD and sketching.
2. Present engineering drawings using current industry standard documentation and annotation techniques.
3. Define terminology related to engineering graphics.
4. Prepare a professional portfolio.

Evaluation & Grading Policy

Methods of Evaluation: The final grade you receive will be based on the following criteria: 60% Projects & Quizzes Grade Scale: 100% - 90% A 10% Participation 89% - 80% B 10% Portfolio 79% - 70% C 10% Midterm 69% - 60% D 10% Final 59% - 0% F *Late work, for any reason, is penalized 20% and will not be accepted for credit more than 2 class meetings after it is due. *Per CR policy, students with 4 absences prior to the end of the 10th week will be dropped from the course.

Each assignment is graded separately for each student, meaning there is no curve. For each incorrect portion of the drawing, ½ a point will be deducted from the drawing's grade. This can be changed depending on the severity of the mistake by the instructor. Participation is based on taking a quiz on Canvas at the beginning of each class. Students will have 10 minutes total for the quiz; 5 minutes prior to the start of class and 5 minutes after the beginning of class. Students will get 2 points on each quiz regardless of answering questions correctly or not. If a student leaves early, they will lose 1 point. At the end of the semester, the instructor may add or subtract points depending on class participation and attitude.

Prerequisites/co-requisites/ recommended preparation

N/A

Special Accommodations Statement

College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request at least one week before the first test so that necessary arrangements can be made. No last minute arrangements or post-test adjustments will be made. If you have a disability or believe you might benefit from disability related services and may need accommodations, please see me or contact Disabled Students Programs and Services. Students may make requests for alternative media by contacting DSPS at 707-476-4280.

Student Feedback Policy

The instructor will mark on assignments with hints on how to complete exercises to better the student's problem solving procedure and graphic outcome.

Proctored Exams

N/A

Student Accessibility Statement

Academic support is available at Counseling and Advising and includes academic advising and educational planning, Academic Support Center for tutoring and proctored tests, and Extended Opportunity Programs & Services, for eligible students, with advising, assistance, tutoring, and more.