

CUMBERLAND COUNTY COLLEGE

Course: EG 102 Engineering Graphics

Credits: 2 (2:1:2)

Prerequisite: MA120 or MA121

Description: This course provides the fundamental principles of engineering drawing, fundamental principles of descriptive geometry, graphical mathematics, and CAD.

Learning Outcomes:

At the completion of this course, students will be able to:

- Use graphical instruments
- Apply the principles of descriptive geometry
- Sketch a technical drawing
- Prepare drawings in CAD
- Analyze the views of a three dimensional object
- Examine three dimensional pictorials

Topical Outline:

- Drawing Instruments
- Geometric Construction
- Freehand sketching
- Orthographic Projection
- Primary Auxiliary Views
- Sections
- Dimensioning and Tolerances
- Three-Dimensional Pictorials
- Points, Lines, and Planes
- Descriptive Geometry
- CAD

Text:

Engineering Design Graphics by James H. Earle, Prentice Hall Publishing

Student Assessment:

In the course of this semester two examinations will be given in addition to a comprehensive final exam. These exams in addition to the term project and homework assignments constitute the basis for

evaluation of the student proficiency.

Your course grade will be calculated as follows:

Two hour-exams	50%
Final Exam	30%
Project	15%
Homework	5%

Academic Integrity:

Plagiarism is cheating. Plagiarism is presenting in written work, in public speaking, and in oral reports the ideas or exact words of someone else without proper documentation.

Whether the act of plagiarism is deliberate or accidental [ignorance of the proper rules for handling material is no excuse], plagiarism is, indeed, a “criminal” offense. As such, a plagiarized paper or report automatically receives a grade of **ZERO** and the student may receive a grade of **F** for the semester at the discretion of the instructor.

Tutoring & Project Assist:

If you are having difficulty with work in this class tutoring is available through the Center for Academic & Student Success. If you think that you might have a learning disability, contact Project Assist at 856.691.8600 x 1282 for information on assistance that can be provided to eligible students.

Before Withdrawing From This Course:

If a student experiences adverse circumstances while enrolled in this course and considers withdrawing, s/he should see an advisor (division or advisement center) BEFORE withdrawing from the class. A withdrawal may cause harmful repercussions to completion rate standards and overall GPA which can limit or eliminate future financial aid in addition to causing academic suspension.