

CUMBERLAND COUNTY COLLEGE

Course: EG 101 Introduction to Engineering I

Credits: 2 (2:2:0)

Prerequisite: MA 120 or MA 121

Description: This course introduces engineering students to a variety of programs and concepts in various fields of engineering. The course will deal with basic computation techniques, problem solving and experimentation.

Learning Outcomes:

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

- Distinguish different Engineering fields
- Employ design processes
- Discuss data treatments
- Apply the design process in a term project

Topical Outline:

- The Engineering profession
- Engineering solutions
- Presentation of technical information
- Engineering estimations and approximations
- Dimensions, units and conversions
- Preparation of computer solutions
- Statics
- Mechanics
- Materials
- Electrical Theory
- Energy
- Engineering Economics
- Total Quality

Text:

Engineering Fundamentals and Problem Solving, Fourth Edition, By Eide, Jenison, Mashaw & Northup: McGraw-Hill.

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's proficiency.

The course grade will be calculated as follows:

Two 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.