

**El Paso Community College**  
**Syllabus**  
**Part II**  
**Official Course Description**

<b>SUBJECT AREA</b>	<u>Engineering</u>
<b>COURSE RUBRIC AND NUMBER</b>	<u>ENGR 1401</u>
<b>COURSE TITLE</b>	<u>Introduction to Engineering</u>
<b>COURSE CREDIT HOURS</b>	<u>4            3    :    3</u> Credits      Lec      Lab

**I. Catalog Description**

Introduces engineering as a discipline and a profession. Includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society.

**Prerequisite: MATH 2413. (3:3).**

**II. Course Objectives**

Upon satisfactory completion of this course, the student will be able to:

- A. Explain the application of different unit systems in engineering.
- B. Discuss the basic procedure for solving engineering problems.
- C. Apply standards in the design process.
- D. Use mathematical tools, the compute, and the programmable calculator for solving engineering problems.
- E. Describe product design and manufacturing through “reverse engineering” of products.
- F. Communicate technical information clearly and succinctly through oral, written, and graphical presentations.

**III. Evaluation**

- A. The grade for this course will be based on performance on quizzes, lab, writing assignments, homework, three regular exams, and a comprehensive final exam. Every student is required to take the final exam at the end of the semester.
- B. The grade will be assigned based on the scale below:

<u>Score</u>	<u>Grade</u>
90-100	A
80-89	B
70-79	C
60-69	D
Below 60	F

**IV. Disability Statement (American with/Disabilities Act [ADA])**

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024)

**V. 6 Drop Rule**

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.