

THE UNIVERSITY OF TEXAS RIO GRANDE VALLEY  
College of Engineering and Computer Science  
Department of Mechanical Engineering  
Tex-PREP 4: Engineering Graphics – SUMMER 2017

**INSTRUCTOR:**

Jazmin Ley, MSE  
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**REQUIRED MATERIALS:**

1. A removable storage device such as a USB Memory Drive or External Drive that can hold 1 GB or greater.
2. Engineering Paper – Bought or Printed, Pocket Folder, Pencil, and Eraser.
3. Non-Programmable Scientific Calculator: TI-30X or TI-36X Calculator or something with same capabilities.
4. Straight Edge or Ruler
5. Access to YouTube

**GENERAL COURSE OBJECTIVES:**

Students will be able to:

1. Define and provide steps to the Engineering Design Process.
2. Demonstrate proficiency in free hand sketching.
3. Demonstrate proficiency in geometric modeling and computer aided drafting and design (CADD).
4. Communicate design solutions through sketching and computer graphics software using standard graphical representation methods.
5. Solve problems using graphical geometry, projection theory, visualization methods, pictorial sketching, and geometric (solid) modeling techniques.
6. Demonstrate proper documentation and data reporting practices.
7. Complete a project involving creation of 3D rapid prototype models.

**CLASS POLICIES AND ATTENDANCE:**

Students will be respectful and mindful of each other and the instructor.

If you are absent, you are responsible for assignments missed. Please contact your Program Mentors and peers to get your missed assignments. You can always access the information missed on my webpage under the TexPREP link.

Students **will not** be permitted to leave the classroom during lectures and exams except for genuine **emergencies**. Going to the restroom does not count as an emergency unless you have a documented medical condition.

**ASSIGNMENTS, QUIZZES, AND HOMEWORK:**

- Quizzes will be given frequently online after every Lecture. There will be **no make-ups** but the lowest grade will be *dropped*. They will cover any material covered in the prior lectures, lessons, and any reading or homework assignments.
- Homework will be due the day after the assignment has been given, unless other instructions are given. You are to work with a pencil, NO PEN will be used for homework assignments. Homework is always graded

based on format, grammar and spelling, technical content, and overall quality. It must be submitted clean, neat, and in a pocket folder.

## **GRADING POLICY:**

### **Curves:**

There will be no curve applied to grades. Corrections may be applied to exams if I determine some problems were poorly conceived or worded. No grade changes will occur 24-hrs after your grade has been returned to you.

### **Course Grades:**

- Lab Assignments 30%
- Homework 10%
- Quizzes 15%
- Exams 30%
- Design Project 15%

### **Grading Scale:**

The grading scale will be 90 – 100 = A, 80 – 89 = B, 70 – 79 = C, 65 – 69 = D, < 65 = F. If your final course average is on the border between two grades, I reserve the right to give you the higher grade based on any or all of three factors:

- A. Fraction of home-works completed and homework average
- B. Evidence of improving mastery shown by improving grades over the semester
- C. Performance on final exam.

A grade of incomplete ("I") will be given only in situations where a student is unable to finish the semester due to circumstances beyond his/her control. It will not be given if you fail to plan ahead.

## **SCHOLASTIC INTEGRITY:**

### **Originality of Submitted Work:**

If it is determined that submitted work is not original (either a copy of a solutions manual or another student's work) the plagiarism will be reported to the TexPREP Director for administrative action. Minimum penalty for such activity is loss of credit for work but may include expulsion from the camp.

If you are working in groups, each one of you must be responsible for submitting your own work. The midterm and final exams will require you to turn in your individual work. No sharing of computers will be allowed during examinations. For Solid Works, I can generally tell when parts and assemblies are transferred from one drive to another.

### **MAKE-UP AND LATE WORK:**

Assignments are due when specified on dates and times *LATE WORK WILL NOT BE ACCEPTED* unless prior (24 hour) arrangements have been made. Provision may be made for genuine emergencies or business trips *at the professor's discretion*. However, you must contact the instructor well *in advance* of any business required absences or special arrangements cannot be made. Because only two exams will be used in the grade calculation, there will be no make-up exams given for the semester exams. This no-late-work policy is mandated by departmental standards which do not allow late work.