

Syllabus for ME 102

Mechanical Engineering 102

Course website: D2L

Lecture: Monday 3:00 – 3:50 PM, EGRA111

Computer Lab: As per schedule

Course Textbook: **Visualization & Engineering Design Graphics with Augmented Reality**
Camba, Otey, Contero, Alcaniz

- **Supplies:**
Storage media (Flash drive is required)
- **Course Objectives:**
Develop understanding of general projection theory with emphasis on orthographic and derived views such as section views. Understand the application of industry standards and best practices applied in engineering graphics. Dimension and annotate engineering drawings. Introduction to Geometric Dimensioning & Tolerancing (GD&T). Use of CREO software to create 3-D drawings and explore the capabilities of geometric modeling using CREO.
- **Topics Covered:**
 - Basic concepts of computer-aided drawings – Multi-views and Visualization – Auxiliary Views - Section Views – Dimensioning – GD&T – Working Drawings and Assembly – Threaded Fasteners - Basic CREO commands – CREO layering and object properties - Advanced CREO drawing and modify commands – Creating & editing text – Creating and dimensioning 2D drawings in CREO.
- **General Policy**
Attendance will be taken randomly, but frequently in lecture and regularly in the lab. No late homework and no make-up for missed exams
- **Distribution of Grades:**

Tests (2)		
Final Exam	Monday, May 5	8:00 – 10:00 P.M.
Homework		
Lab work		
- **Grading Policy:**

A:	90 – 100 %
B:	80 – 90 %
C:	70 – 80 %
D:	60 – 70 %
F:	0 – 60 %

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