

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**

- **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 2D 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): 30%

Final Exam: 30%

Homework: 15%

Lab work: 25%

Wednesday, Dec. 11 3:10 – 5:10 P.M.

- **Grading Policy:**

A: 90 – 100 %

B: 80 – 90 %

C: 70 – 80 %

D: 60 – 70 %

F: 0 – 60 %

*Emergency Procedures. Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT's website at www.bert.siu.edu, Department of Safety's website www.dps.siu.edu (disaster drop down) and in Emergency Response Guideline pamphlet. Know how to respond to each type of emergency. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. **It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency.** The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.*