

## ENGR350 – MECHANICS OF MATERIALS – Spring 2014

Room EGR 219 – MWF 8:00 – 8:45 am

**Instructor:** Serge Abrate, Professor, Room B112, [abrate@engr.siu.edu](mailto:abrate@engr.siu.edu)

**Office hours:** MWF 1:30-3:30 pm

**Textbook:** Craig, Mechanics of Materials, 3<sup>rd</sup> edition, 2011, John Wiley & Sons

**Objectives:** This class will introduce basic concepts in the mechanics of deformable bodies: stress, strain, constitutive equations, tension, torsion, bending and buckling. Students are expected to master these concepts and learn how to apply them to solve practical problems.

**Attendance is mandatory.** Missed quizzes cannot be made up and will result in a grade of zero. Lab sessions are also mandatory. In case of absence, the grade for the lab will be reduced 50%.

**Quizzes:** Quizzes will be given twice a week on average. They are designed to make sure that new concepts are well understood and to provide quick feedback.

**Homework:** a set of homework problems will be given every week. These assignments should be turned in on the due date at the beginning of class. No late homework will be accepted.

### Tests:

- Test 1: Wednesday, January 12, 2014
- Test 2: Wednesday, March 26, 2014
- Test 3: Monday, May 5, 2014, 7:50-9:50 am

Attendance is mandatory. Absences will be excused only under extreme circumstances.

**Final grade:** Test: 45%, HWK: 20 %, Quizzes: 20%, Lab reports 15%