

ME 110 Introduction to Mechanical Engineering-Section 1 (Spring 2011)

Time: MWF 2:00-2:50 PM Campus: South Dakota School of Mines and Technology
Location: Class: CB 204W Credits: 2 Credits (1 credit lecture/1 credit lab)
Instructor: Dr. Duane Abata
Email: duane.abata@sdsmt.edu (place 'ME110' in the subject line please)
http://abata.sdsmt.edu
Office: EP235
Office Hours: 9-10:00 AM and 3-4:00 PM MWF or by appointment.
Phone: 605-394-5264

References: *Introduction to Graphics Communications for Engineers*, Gary R. Bertoline, 1999.
SolidWorks 2000 Getting Started, SolidWorks Corporation, 2000.

Online: Additional Course Materials on the F: Drive (F:/Dept/ME/Ash /ME110)

GRADING

Points: The following weights are used for all sections:

<u>Topic</u>	<u>Percentage</u>
Homework	30%
Quizzes	30%
Project	25%
Professional Development	15%

Grading Scale: A (90-100) B (80-90) C (70-80) D (60-70) F (<60)

COURSE DESCRIPTION

An introductory course for incoming mechanical engineering freshmen which will introduce the student to the profession they have chosen. Topics to be covered include: Solid modeling, CAD lab, professional development, engineering design, technical communication, personal development, and academic success skills.

OBJECTIVES

To make the most of this course, it is recommended that students adopt the following five learning objectives to guide their priorities and actions during this term.

- ◆ Be able to use physical principles in the design process to address engineering problems.
- ◆ Become an effective team member.
- ◆ Develop the communication skills necessary to package their technical and professional skills to succeed in engineering practice.
- ◆ Develop an understanding of 3-D modeling.
- ◆ Understand the engineering design process and how 3-D modeling fits into it.

STUDENT EFFORT AND ATTENDANCE

For each lecture period, the student is expected to spend between two and three hours in reading and solving homework problems. Notify the instructor ahead of time (when possible) if you will be absent from class. Homework will incur a 10% penalty per each class period that it is late and will not be accepted after it has been returned to the students. Late assignments without penalty must be approved by the instructor preferably before the due date. The make-up policy on quizzes is that the absence from such must be approved and an alternative time will be arranged with the student. Cheating/plagiarism will not be tolerated and will result in the disciplinary procedures outlined in the SDSM&T student code of conduct.

PROFESSIONAL DEVELOPMENT (15% total)

Your engineering education, in general, does not conclude after obtaining your degree. To stay effective requires professional development and lifelong learning. To that end, the following professional development activities are required and constitute the listed percentages of your grade; membership in a professional society (5%), career goals/professional society lecture review (5%), and an industrial speaker review (5%). Memos will be required for the latter two in-class activities.

FREEDOM IN LEARNING STATEMENT

Under Board of Regents and University policy student academic performance may be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards. Students should be free to take reasoned exception to the data or views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Students who believe that an academic evaluation reflects prejudiced or capricious consideration of student opinions or conduct unrelated to academic standards should contact the dean of the college which offers the class to initiate a review of the evaluation.

Students with special needs or requiring special accommodations should contact the instructor and/or the campus ADA coordinator, Ms. Jolie McCoy, at 394-1924 at the earliest opportunity.