

ENGR 1100 – INTRODUCTION TO ENGINEERING

Spring 2010

Syllabus

Instructor: Bill Saari

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Office Hours: 12:00 - 12:50 MWF, 11:00 - 11:50 TR

Course Website: <http://www.ar.cc.mn.us/saari/engr1100>

Course Description: This course provides an introduction to the engineering profession. Information on the different disciplines of engineering will be presented. Professional and ethical aspects of engineering will be covered. An introduction to problem solving and the engineering design process with the utilization of various computer applications will be covered.

Grading (200 total points)

Assignment 1: Interview (30 points)

Assignment 2: Engineering Ethics (30 points)

Assignment 3: Engineering Course Plan (30 points)

Group Project: Robot Design (30 points)

Exam 1: Civil, Aerospace, and Mechanical Engineering (40 points)

Exam 2: Chemical, Materials, Electrical, and Computer Engineering (40 points)

A: 180 – 200 points

B: 160 – 179 points

C: 140 – 159 points

D: 120 – 139 points

F: < 120 points

Exams: Exams will be closed book, closed notes. There will be no make-up exams except under extreme cases determined at the discretion of the instructor, and only one make-up exam will be allowed regardless of the circumstances. In order to be even considered for a make-up exam, you must contact me on or prior to the scheduled date for the exam.

Assignments: Late assignments will be assessed a 10 percent late penalty per school day late (Monday, Tuesday, Wednesday, Thursday, and Friday).

Academic Dishonesty: With the exception of the group project, I expect the work you turn in to be your own efforts. Instances of academic dishonesty will be dealt with according to the regulations of Anoka-Ramsey Community College.

Class Conduct: You are expected to be courteous towards the instructor and your classmates. You are expected to be on time for lecture. Cell phones and notebook computers should be turned off and put away during lecture. You should not talk to your classmates while I am talking or while one of your classmates is asking a question. If you have a question about the course material, ask me and I will be more than happy to answer your question.

Registration Information:

Last day to drop this class and receive a full refund: Friday, January 15

Last day to withdraw from this class: Friday, April 23

Tentative Course Schedule

Date	Topics	Assignments
Jan 11	Introduction to the Engineering Profession Fields of Engineering	Start Assignment 1
Jan 18	No Class	
Jan 25	Civil Engineering (Trusses)	
Feb 1	Aerospace Engineering (X-Prize)	Submit Assignment 1
Feb 8	Mechanical Engineering (Vapor Power Plant and Engine Cycles)	
Feb 15	No Class	
Feb 23	Exam 1	
Mar 2	Computer and Electrical Engineering (Digital and Analog Circuits)	
Mar 9	Materials Engineering	
Mar 15	No Class	
Mar 22	Chemical Engineering (Alternative Fuels)	
Mar 29	Exam 2	
Apr 5	Engineering Design Process	
Apr 12	Engineering Ethics	Start Assignment 2
Apr 19	Engineering Curriculum	Submit Assignment 2 Start Assignment 3
Apr 26	Group Project	Submit Assignment 3 Start Group Project
May 3	Group Project	
Group Project Presentation: Tuesday, May 11, 2:00 – 4:00pm		