

ENGR 1100 – INTRODUCTION TO ENGINEERING

Fall 2009

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, August 28

Last day to withdraw from this class: Wednesday, December 2

Tentative Course Schedule

Date	Topics	Assignments
Aug 24	Introduction to the Engineering Profession Fields of Engineering	Start Assignment 1
Aug 31	Civil Engineering (Trusses)	
Sep 7	No Class	
Sep 14	Aerospace Engineering (X-Prize)	Submit Assignment 1
Sep 21	Mechanical Engineering (Vapor Power Plant and Engine Cycles)	
Sep 28	Exam 1	
Oct 5	Computer and Electrical Engineering (Digital and Analog Circuits)	
Oct 12	Materials Engineering	
Oct 19	Chemical Engineering (Alternative Fuels)	
Oct 26	Exam 2	
Nov 2	Engineering Design Process	
Nov 9	Engineering Ethics	Start Assignment 2
Nov 16	Engineering Curriculum	Submit Assignment 2 Start Assignment 3
Nov 23	Group Project	Submit Assignment 3 Start Group Project
Nov 30	Group Project	
Dec 7	Group Project	
Group Project Presentation: Wednesday, December 16, 2:00 – 4:00pm		