

## ENGR 1100 – INTRODUCTION TO ENGINEERING

Fall 2008

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)

Project 1: Research Report (30 points)

Project 2: Properties of Materials (30 points)

Project 3: Brainstorming Design Project (30 points)

Project 4: Engineering Ethics (30 points)

Project 5: Engineering Course Plan (30 points)

Project 6: Final Design Project (50 points)

A: 180 – 200 points

B: 160 – 179 points

C: 140 – 159 points

D: 120 – 139 points

F: < 120 points

*Assessment:* Assessment for this course will be based on several projects given throughout the semester. A portion of the projects will be completed in groups. Groups will need to meet both during and outside of class. Late assignments will be assessed a 10 percent late penalty per school day late (Monday, Tuesday, Wednesday, Thursday, and Friday).

*Academic Dishonesty:* Projects 3 and 6 are group projects, and the work submitted for these projects should be a combined effort of the group. However, Projects 1, 2, 4, and 5 should be completed individually, and the work you submit should be your own efforts. Anyone who is caught cheating on Projects 1, 2, 4, and 5 will receive an F for the **ENTIRE** course.

*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 should be turned off 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 29

Last day to withdraw from this class: Wednesday, November 26

**Tentative Course Schedule**

Date	Topics	Assignments
Aug 25	Introduction to the Engineering Profession	
Sep 1	<b>No Class</b>	
Sep 8	Fields of Engineering	Start Project 1
Sep 15	Mechanical and Aerospace Engineering	
Sep 22	Chemical Engineering/Materials Science Demos Chemical Engineering Video	<b>Submit Project 1</b>
Sep 29	Material Stress-Strain Relationships	Start Project 2
Oct 6	Brainstorming Engineering Design Process Brainstorming Design Project	<b>Submit Project 2</b> Start Project 3
Oct 13	Brainstorming Design Project – Presentation	<b>Submit Project 3</b>
Oct 20	Brainstorming Design Project	
Oct 27	Engineering Ethics	Start Project 4
Nov 3	Engineering Curricula	<b>Submit Project 4</b> Start Project 5
Nov 10	Fields of Engineering	
Nov 17	Final Project	<b>Submit Project 5</b> Start Project 6
Nov 24	Final Project	
Dec 1	Final Project	
Dec 8	Final Project	
<b>Project 6 Presentation: Friday, December 19, 2:00 – 4:00pm</b>		