

**ENGR 1111 – ENGINEERING GRAPHICS**  
Spring 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/engr1111>

*Course Description:* Introduction to Engineering Graphics. Topics include pencil sketches, standards of engineering drawings, multi-view drawings, auxiliary drawings by rotations, and computer-aided design using Pro/ENGINEER.

*Prerequisite:* MATH 1201 or concurrent enrollment

*Textbooks:*

Engineering Graphics Essentials (Text and Video Instruction) Third Edition by Plantenberg  
Pro/ENGINEER Wildfire 4.0 Tutorial by Toogood and Zecher

*Grading:*

Grades will be determined based on a weighted average of percentages.

Exams            3 x 20% = 60%

Homework      20%

Final Project   20%

A > 90%, B > 80%, C > 70%, D > 60%, F < 60%

*Exams:* Exams will be closed book, closed notes, and will be drawing exams of various parts and objects. 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. 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.

*Final Project:* The final project will be design oriented. A complete set of working drawings created using Pro/Engineer will be submitted. A technical report describing the design will also be submitted, and a PowerPoint presentation will be given during the final exam period.

*Homework:* Homework will be assigned, collected, and graded on a regular basis. No late homework will be accepted, but your lowest two homework scores will be dropped. Homework is due at the **BEGINNING** of class. I will place an open folder at the front table of the room at the beginning of class. After I close the folder, no homework will be accepted under **ANY** circumstances. You must show all work to receive full credit for your solution.

*Academic Dishonesty:* You are encouraged to work with others in the class. However, 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. Class disruptions include: arriving late for class, talking during lecture with other students, and cell phones not turned off during class. You will be allowed to arrive late to class up to three times for the entire course without penalty. After that, one point per late arrival will be deducted from your next exam score. There is no penalty for not attending class. For instances of talking during lecture, you will receive up to three warnings, after which you will receive a one point deduction per instance of talking on your next exam score. Group activities where you are expected to work with your classmates are exempt from this. A one point deduction will be taken on your next exam per instance that your cell phone rings (ring tone or vibrate mode) after the third instance. Further actions can be taken for these and other class disruptions in accordance with the Student Handbook.

### Tentative Course Schedule

Week of	Monday	Wednesday	Friday
Jan 12	Ch. 1	Ch. 1	Ch. 1
Jan 19	<b>No Class</b>	Ch. 1	Ch. 1
Jan 26	Ch. 1	Ch. 1	Ch. 1
Feb 2	Ch. 1	Ch. 1	<b>Exam 1</b>
Feb 9	Ch. 2	Ch. 2	Ch. 2
Feb 16	<b>No Class</b>	Ch. 2	Ch. 3
Feb 23	Ch. 3	Ch. 3	<b>No Class</b>
Mar 2	Ch. 4	Ch. 4	<b>Exam 2</b>
Mar 9	Ch. 4	Ch. 5	Ch. 6
Mar 16	<b>No Class</b>	<b>No Class</b>	<b>No Class</b>
Mar 23	Ch. 6	Pro/E	<b>Exam 3</b>
Mar 30	Pro/E	Pro/E	Pro/E
Apr 6	Pro/E	Pro/E	Pro/E
Apr 13	Pro/E	Pro/E	Pro/E
Apr 20	Pro/E	Pro/E	Pro/E
Apr 27	Pro/E	Pro/E	Pro/E
May 4	Pro/E	Pro/E	Pro/E
<b>Final Project and Presentation: Wednesday, May 13, 11:50 – 1:50</b>			

### List of Supplies

1. 45 degree triangle (4" side minimum)
2. 60 degree triangle (6" long side minimum)
3. Engineer's scale (Measured in tenths)
4. Engineer's Paper
5. Two mechanical or drawing pencils (0.5mm or 0.7mm)
6. Pencil Leads
  - a. HB or B
  - b. H or 2H

Most of the materials can be found at Office Depot, OfficeMax, or the ARCC Bookstore.