ENGINEERING GRAPHICS
Textbook

Modern Graphics Communication
By Giesecke, Mitchell, Spencer, Hill, Dygdon, Novak, and Lockhart
Prentice Hall

Reference Books

Instructor
Dr. Meung J. Kim, Professor of Mechanical Engineering
Office Hours: TWTh 11:00 – 11:50 am at EB218
Class: TTh, 12:30 pm – 1:45 pm at EB101
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Teaching/Lab Assistants

The following teaching/lab assistants are available in cad/cam lab (EB 231) as posted on the lab door.
- Mohammad Abdulsamad
Goal of Engineering

The primary **goal** of engineering → transform ideas into products that are economical and reliable.

The **process** of designing and introducing a part to manufacturing involves a sizable investment and draws on various disciplines and resources.

**Engineering** is an important key to product design, product manufacturing flow, and the ability of a company to produce good products.
Goal of Engineering Graphics

The design can be effectively communicated graphically. Engineering Graphics is the study of all necessary graphics communication methods of the design that includes...
Graphics language, measurements, and standards
Drafting techniques
Geometric constructions
Principles of orthographic projection
Descriptive geometry: Spatial relationships
Auxiliary views
Pictorial presentation
Sectional views
Dimensioning
Tolerancing and surface quality
Mechanical fasteners: bolts, nuts, keys, screws, springs, and washers
Permanent fasteners: welding and riveting
Developments
Intersections
Computer Software

1. AutoCad
2. Unigraphics
3. Pro/Engineer
4. SolidWorks
5. Other related software
Course Outline

Course:      MEE270, ENGINEERING GRAPHICS  
Class:         12:30 - 1:45 pm, TTh,  EB101 
Instructor:  Meung J. Kim, Ph.D., Mechanical Engineering, EB218, (815) 753-9965 
Textbook:  Modern Graphics Communication by Giesecke et al

Wk 1. Ch1. Design and Graphic Communication  
Ch2. CAD and Solid Modeling  
Wk 2. Ch4. Geometric Constructions and  
Modeling Basics  
Wk 3.  
Wk 4. Ch5. Multiview Sketching and Projection  
Wk 5. Ch6. Pictorial Sketching  
Wk 6.  
Wk 7. Ch7. Sectional Views  
Wk 8. MID-TERM (TBA)  
Wk 9. Ch8. Auxiliary Views, Developments, and Intersections  
Wk 10.  
Wk 11. Ch9. Dimensioning  
Wk 12. Ch11. Tolerancing  
Wk 13. Ch12. Threads, Fasteners, and Springs  
Wk 14.  
Wk 15. Ch13. Working Drawings

Grading Policy  
1. Homework and Quizzes:       30 %  
2. Exams                                     70 %

Grade Distribution
A.     90 - 100                 C.     70 - 79
B.     80 - 89                 D.     60 - 69
Questions or Help
Computer Hardware
Production Drawing
Drawing Basics

- Figure 5.7: Top and Right-Side Views.
- Figure 5.8: The Glass Box.
AutoCad
SolidWorks
Pro/Engineer

Model Tree

Main Menus