ME70
Computer Aided Design

Introduction

This and all notes/assignments are on the course website:
http://courses.engr.illinois.edu/me170/

Instructor:
Mike L. Philpott PhD, CEng.
Emeritus Associate Professor of Mechanical Science and Engineering
ME170 - Computer Aided Design (CAD)

Course Objectives

• Learn the fundamentals of engineering design/drafting through 3D CAD solid modeling

• Learn to describe the geometry and topology of engineered components in industry standard Engineering Drawing formats (ANSI Y14.5, ISO M, and GD&T)

• Learn Creo/ProE Parametric/Wildfire, PTC’s Engineering Design Solid Modeling System.

• Introduction to the Mechanical Design Process

• Introduction to Design for Manufacture (ME270)
Contact Details

Mike Philpott: Instructor for Tu/Th Lectures & Overall Course Coordination

Office: 3007 MEL
Office hrs: 3pm-4pm Mondays, 10:00-11:00 Thursdays
Phone Number: 244-3184
Email: mphilpot@illinois.edu

TAs: Teaching Assistants (graduate students) responsible for lab sections, lab assignments, lab grading and final project grading

Office hours and other contact details:
Announced in Lab section and on website

Graders: Graders (undergraduate students) assist during labs, mostly grading

Office hours and other contact details:
Announced in Lab section and posted on website
MIE170 Lab Section Location

Engineering WorkStation Lab
1009 MEL

(Labs Start: Week 2, i.e. Monday Jan 25th, 2016)

Required Course Book

“Creo Parametric 3.0 Basic Design”
By Steven G. Smith, Published by CADquest inc.

ProE/CreO Software Download (optional)
http://webstore.illinois.edu or use Citrix
Creo Parametric 3.0
Grading Scheme

Class Assignments #1 - #12 (15%)
Lab Assignments #1 - #10 (45%)
Lab Attendance 5%  

+  

Project Prelim Presentation (5%)
Project Final Presentation (10%)  

+  

Design Project Report (20%)  

=  

A+  Excellent >= 95%
A   Excellent >= 90%
A-  Excellent >= 85%
B+  Good  >= 80%
B   Good  >= 75%
B-  Good  >= 70%
C+  Fair  >= 65%
C   Fair  >= 60%
C-  Fair  >= 55%
D+  Poor  >= 50%
D   Poor  >= 45%
D-  Poor  >= 40%
F   Fail  < 40%
Lab Assignment
Late Handing in Policy

- After the deadline you should submit your lab assignment to the “LateLabs” directory.

- If you need extension due to illness or planned trip, e-mail instructor and request penalty waiver. Even if waiver given, ftp to “lateLabs”

- Penalty is 50% credit after deadline up to 2 weeks late. ZERO credit after 2 weeks.
Emergency and Safety Procedures

• In an emergency in this building, we’ll have two choices: get out or find a safe place to stay inside.
• First, we’ll take a few minutes to learn the different ways to leave this building. You’ll know how to get out quickly and you’ll be able to help others get out too.
• Second, if there’s severe weather, Public Safety recommends that you go to a low level in the middle of the building, away from windows.
• If there’s a security threat, we’ll lock or block the door, be as quiet as possible, unless we’re able to safely signal for help.
• You can sign up for emergency text messages, at emergency.illinois.edu, you’ll receive information from the police and administration during these types of situations.
• If you have any questions, go to police.illinois.edu, or call 217-333-1216.