

EK131 INTRODUCTION TO ENGINEERING
FALL 2013
MODULE M1 MECHANICAL DESIGN FOR MANUFACTURING
COURSE SYLLABUS

Prof. T. A. de Winter

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Office hours: Monday By appointment only

Tuesday 7:00AM – 12:00 noon

Wednesday 7:00-11:30AM, 1:00-4:00PM

Thursday 7:00AM-12:00 noon

Friday 7:00-11:15AM

Text: Spotts, Shoup and Hornberger, Design of Machine
Elements, Prentice-Hall, 8th edition

Classroom: Photonics PHO 201

Time: Tuesday, Thursday 2:00AM-4:00PM

FALL 2013 CLASS SCHEDULE

1. Tuesday, September 3
2. Thursday, September 5
3. Tuesday, September 10
4. Thursday, September 12
5. Tuesday, September 17
6. Thursday, September 19
7. Tuesday, September 24
8. Thursday, September 26
9. Tuesday, October 1
10. Thursday, October 3
11. Tuesday, October 8
12. Thursday, October 10
13. Thursday, October 17*, last EK131 class

*Monday, October 14 is a holiday, and on Tuesday, October 15 a Monday schedule of classes will be observed

An attendance sheet will be circulated in class each day. It is your responsibility to sign the sheet before the start of the next class in the classroom. If you arrived in class after the attendance sheet has passed your seat, be sure to sign the sheet at the desk before leaving the classroom. Excessively and chronically late students may not get full credit for signing the attendance sheet after the end of the class. Each student will have to demonstrate proficiency in the use of Solidworks, a sophisticated

Computer Aided Design(CAD) software. There will be two comprehensive tutorials in the ECL laboratory in 15 ST. Mary's Street and exercises consisting of three dimensional engineering objects.

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GRADING

The grading in Module M1 will be based in equal parts on class attendance, class work, homework and project. There will be regular homework assignments, which will be due on Fridays. This will allow questions in class to deal with the homework problems before the homework is due. You should bring a bound, square ruled notebook to every class, this will be handed in at the end of the module with your project and any other class work. You should bring a calculator to every lecture. Your notebook and project can be picked up after they have been graded. They will be available for pickup until the end of the Spring 2014 Semester.

PROJECT

There will be a simple project assigned to demonstrate the use of the course material and to provide an exercise in good technical report writing.

READING ASSIGNMENTS

There will be several handouts with reading material and data necessary to solve some of the design problems covered in class and homework. In addition, the following reading assignments are from the textbook.

Week 1: Introduction, Pages 1-14
Week 2: Chapter 1, pages 15-80
Week 3: Chapter 2, pages 119-169
Week 5: Chapter 3, pages 185-236
Week 7: Chapter 8, pages 456-499

Boston University has an honor system, and all the work you submit for grading is expected to be your own. You are allowed and encouraged to increase your understanding of the material by discussing the reading material and the homework with your classmates, however, the homework problems and the project which you hand in should be your own work. Attached is a course

registration form which will log your name on the homework grade sheet and acknowledge your receipt and understanding of the course syllabus. Please fill this sheet out and hand it in at the end of the first class.

Grading Summary
Attendance 25%
Homework 25%
Class Notes 25%
Project 25%

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CLASS LIST REGISTRATION

Note: This information and statement simply confirm your intention to attend this course and your understanding of the syllabus, the grading policy and the honor system. This information is necessary to list you on the homework grade sheet for the course and to give you a wake-up call if you appear to have overslept.

NAME _____

ID # _____

MAJOR _____

TERM PHONE* _____

E-MAIL ADDRESS _____

SPECIAL INTERESTS** _____

*Listing your phone number and email will help us get in touch with you in the case of missing homework and occasionally for wake-up calls

**Special interests refer to the publications listed on the previous page.

I acknowledge the receipt of the EK131 M1 Syllabus for the Fall 2013 Semester. I have read and understand the grading policy and the due dates for the homework. I understand that all homework I submit for grading is expected to be my own, individual work.

Signature

Date