

## Tentative Course Syllabus

### ME 110: Introduction to Mechanical Engineering

*Revised 2-25-11*

Instructor: Dr. Duane L. Abata, Professor of Mechanical Engineering

Texts:

Bertoline, Gary R., *Introduction to Graphics Communications for Engineers*, McGraw-Hill, ISBN 0-07-229144-3, 1999 (on reserve in the SDSMT library)

*Solid Works Education Edition Getting Started*, Solid Works Corporation, Concord MA, 1999-2002 (pdf file on the F drive).

	day	date	class	homework <u>due</u>
1	F	Jan 14	Introduction	
	M	Jan 17	Martin Luther King Day (no class)	
2	W	Jan 19	The Engineering Profession	
3	F	Jan 21	An Introduction to Sketching	Bertoline Chap 1
4	M	Jan 24	Orthographic Views	Sketching Quiz (take home)
5	W	Jan 26	Isometric Views	Bertoline Chap 2
6	F	Jan 28	Missing Line Views	Bertoline Chap 3
7	M	Jan 31	Professional Societies	Bertoline Chap 4, hand in Sketching Quiz
8	W	Feb 2	Time Management	Bertoline Chap 5
9	F	Feb 4	Solid Works: Getting Started (Chap 2- Chap 4) Isometric Pictorials	
10	M	Feb 7		Bertoline Chap 6
11	W	Feb 9		
12	F	Feb 11	Solid Works: Revolve and Sweep (Chap 7)	Assignment 4 due
13	M	Feb 14		
14	W	Feb 16		
15	F	Feb 18	Solid Works: Loft (Chap 8)	
	M	Feb 21	President's Day (no class)	
16	W	Feb 23	Solid Works: Pattern/Fillet Features (9-10)	
17	F	Feb 25		
18	M	Feb 28		Assignment 5 due
19	W	Mar 2	Solid Works Quiz 2	
20	F	Mar 4		
	M	Mar 7	Spring break (no class)	
	W	Mar 9	Spring break (no class)	
	F	Mar 11	Spring break (no class)	
21	M	Mar 14	The Design Process	
22	W	Mar 16	Solid Works: Assembly Mates (Chap 12)	

23	F	Mar 18		Assignment 6 due
24	M	Mar 21	Solid Works: Advanced Design Techniques (Chap 13)	
25	W	Mar 23		
26	F	Mar 25	Project Introduction	
27	M	Mar 28	Geometric Tolerances	Bertoline Chap 4 (again)
28	W	Mar 30	Engineering Ethics Case Study 1 – Space Shuttle	
29	F	Apr 1	Engineering Ethics Case Study 2 – Accepting Gifts	
30	M	Apr 4	Statistics and Significant Figures	
31	W	Apr 6	Technical Writing	
32	F	Apr 8	Project Work	
33	M	Apr 11		
34	W	Apr 13		
35	F	Apr 15		
36	M	Apr 18		
37	W	Apr 20	Technical Presentations	Team Presentations and Reports
38	F	Apr 22		
39	M	Apr 25		
40	W	Apr 27		
41	F	Apr 29		
	M	May 2	begin FINAL EXAM WEEK (Optional Redo Quiz)	