

UNIVERSITY OF NOTRE DAME
DEPARTMENT OF AEROSPACE AND MECHANICAL ENGINEERING
AME30362: Design Methodology, Fall 2009

Schedule of Class Session Topics, Readings, Exams and Project Due Dates: As of 10/20/09

This schedule will be undated and posted on the website so be aware that changes will occur.

Session	Date	Day	Topic	Project Due	Eggert Chapt.
1	8/25	Tu	Introduction to Design, Synthesis and Analysis		
2	8/27	Th	Design process and customer needs		1
3	9/1	Tu	Visual thinking and visualization		
4	9/3	Th	Concept mapping and decomposition		2
5	9/8	Tu	Customers, Projects and Team assessment	P1	3
6	9/10	Th	Design specifications I		
7	9/15	Tu	Design specification II		
8	9/17	Th	Design in industry - Guests		
9	9/22	Tu	Engineering, Industrial design and Marketing - Guests	P2	
10	9/24	Th	Creativity and Innovation		
11	9/29	Tu	Concept design – diverging thinking		4
12	10/1	Th	Concept design – converging thinking	P3-I	
13	10/6	Tu	Human factors and ergonomics		11
14	10/8	Th	Quiz (45min)		
15	10/13	Tu	Prototypes		9
16	10/15	Th	Material and component selection		5
17	10/27	Tu	Engineering economics I		12
18	10/29	Th	Engineering economics II	P4	
19	11/3	Tu	Configuration design		7
20	11/5	Th	Design space, design tools and modeling	P3-II	8
21	11/10	Tu	Trade studies		
22	11/12	Th	Computer aided engineering (CAE)		
23	11/17	Tu	Detailed Design	P5	13
24	11/19	Th	Intellectual Property and Engineering Design - Guest		
25	11/24	Tu	Engineering ethics		14.4
26	12/1	Tu	Engineering Design Project Planning - Guests	P8	
27	12/3	Th	Examination – 75 min	P6	13
28	12/8	Tu	Project Planning and Scheduling	P3-III	14
29	12/10	Th	Project Planning and Scheduling	P7	
30	12/18	Fri	THERE WILL BE NO FINAL EXAM		