

# EE411 FALL 2008 SYLLABUS

Text: Design for Electrical and Computer Engineers, Ford and Coulston, 2008

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<u>Week</u>	<u>Lesson</u>	<u>Topic</u>	<u>Read</u>
<b>Week of 18 Aug</b>			
1	1.	Introduction to Design/The Engineering Design Process <b>LAB: Project Briefs/Discussions</b>	
<b>Week of 25 Aug</b>			
2	2.	Literature Research/Choosing your project	FC 3-14
	3.	Project Selection and Needs Identification	FC 15-33
		<b>LAB: Prototyping through simulation and hardware</b> <i>Project Assignment #1 Due (Team Selection &amp; Preliminary Project Ideas)</i> <b>HW Set 1:</b> FC: 1.2, 1.3, 1.6	
<b>Week of 1 Sep</b>			
3	4.	<b>MONDAY, 1 SEPTEMBER - LABOR DAY; HOLIDAY</b> Teams and Teamwork <b>LAB: PIC Programming in C</b> <b>HW Set 2:</b> FC: 2.4, 2.6, 2.7	FC 183-194
<b>Week of 8 Sep</b>			
4	5.	Requirements Specification	FC 35-62
	6.	Concept Generation and Evaluation	FC 65-81
		<i>Project Assignment #2 Due (Simple Problem Statement)</i> <b>LAB: PIC Project</b> <b>HW Set 4:</b> FC: 3.1, 3.5, 3.6-3.9, 4.4 (c,d), 4.9	
<b>Week of 15 Sep</b>			
5	7.	Digital Design Principles	
	8.	Functional Decomposition	FC 87-107
		<i>Project Assignment #3 Due (Extended Problem Statement)</i> <b>LAB: Digital Design Practice</b> <b>HW Set 5:</b> FC 5.1, 5.3	
<b>Week of 22 Sep</b>			
6	9.	<b>Exam #1</b>	
	10.	Behavior Models	FC 111-130
		<i>Project Assignment #4 Due (The Requirements Specification)</i> <b>LAB: The art of debug</b> <b>HW Set 6:</b> FC 6.4, 6.5	
<b>Week of 29 Sep</b>			
7	11.	Testing	FC 135-153
	12.	System Reliability	FC 155-177
		<b>LAB: Reconfigurable Hardware</b> <b>HW Set 7:</b> FC 8.4, 8.8, 8.11	
<b>Week of 6 Oct</b>			
8	13.	Project Management	FC 195-210
	14.	Ethical and Legal Issues	FC 213-230
		<b>LAB: Design Project Prototyping</b>	
<b>Week of 13 Oct</b>			
9	15.	<b>MONDAY, 13 OCT – COLUMBUS DAY; HOLIDAY</b> Oral Presentations <b>LAB: Design Project Prototyping</b>	FC 235-243

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<b>Week of 20 Oct</b>			
10	16.	Design Trade-offs – case studies	
	17.	Senior Design Project	
		<b>LAB: Design Project Prototyping</b>	
		<i>Project Assignment #5 Due (System Design Architecture)</i>	
<b>Week of 27 Oct</b>			
11	18.	Writing a Test plan	
	19.	Senior Design Project	
		<i>Project Assignment #6 Due (The Project Plan)</i>	
		<b>LAB: Design Project Prototyping</b>	
<b>Week of 3 Nov</b>			
12	20.	Senior Design Project	
	21.	Senior Design Project	
		<b>LAB : Design Project</b>	
<b>Week of 10 Nov</b>			
13	22.	Senior Design Project	
	23.	Senior Design Project	
		<b>LAB: Design Project</b>	
<b>Week of 17 Nov</b>			
14	24.	Senior Design Project	
	25.	Senior Design Project	
		<b>LAB: Design Project</b>	
<b>Week of 24 Nov</b>			
		<b>THURSDAY &amp; FRIDAY, 27-28 NOV – THANKSGIVING HOLIDAY</b>	
15	26.	Senior Design Project	
	27.	Senior Design Project	
		<b>NO LAB</b>	
<b>Week of 1 Dec</b>			
16	28.	Senior Design Project	
	29.	Senior Design Project	
		<i>Project Assignment #7 Due (The Project Parts List)</i>	
		<b>LAB: Design Project</b>	
<b>Week of 8 Dec</b>			
		[Tuesday, 9 December is the last day of classes]	
17	30.	Course Critiques / Instructor Evaluation	