

ChE 436 Schedule

Class	Date			Subject	Chapter/Reading	Homework	Assign. #
1	Aug	M	30	Introduction/Control Intro.			
2	Sep	W	1	Control Introduction	1 (PDC), 1 (PPC)	Info. Sheet	1
3		F	3	Control Introduction	2 (PPC)	1.6, 1.7, 1.8, Q1.1	2
		M	6	Labor Day Holiday			
4		W	8	Dynamic Modeling	3 (PPC)	SP1, SP2	3
5		F	10	Control Laws-P-only control	4-5 (PPC)	Q3.1- Q3.3 (keep copy)	4
6		M	13	Dynamic Modeling (cont.)	6 (PPC)	Q5.1, Q5.2	5
7		W	15	P-only control/PI control	7-9 (PPC)	SP3	6
8		F	17	PID control	10 (PPC)	SP4, SP5	7
9		M	20	Process Equipment (MJB)	12.3.2-12.3.4 (PDC)	SP6, SP7	8
10		W	22	Valve Design	Ch9 (PDC)	SP8, paragraph	9
11		F	24	Review	12.6-12.7 (PDC)	9.1, 9.4	10
12		M	27	Exam 1			
13		W	29	Modeling	2.1-2.3 (PDC)		11
14	Oct	F	1	Modeling (contin)	2.4-2.5 (PDC)	---	
15		M	4	Linearization/Lab1	4.3 (PDC)	2.4, 2.10	12
16		W	6	Laplace Transforms	3.1-3.4 (PDC)	SP9	13
17		F	8	Laplace Trans. (contin)	3.5 (PDC)	3.4, 3.6a,c, 3.7a,c	14
18		M	11	Transfer Functions	4.1-4.2 (PDC)	3.6b, 3.9, 3.17	15
19		W	13	Trans Func/First Order Sys	5.1-5.2 (PDC)	4.2,4.10	16
20		F	15	First/Second Order Sys.	5.3-5.4 (PDC)	4.7, 5.5	17
21		M	18	Dale Smith, APCO	Industrial visitor		
22		W	20	More Complicated Systems	6.1-6.4 (PDC)	5.14, 5.15	18
23		F	22	Tour of Heating Plant	---	6.2, 6.7	19
24		M	25	Review	7 (PDC)	SP10	20
25		W	27	Exam 2			
26		F	29	Controller Trans. Func.	8.1-8.3 (PDC)		
27	Nov	M	1	Block Diagrams	11.1 (PDC)	SP11	21
28		W	3	Closed Loop Sys. (contin)	11.2 (PDC)	11.11	22
29		F	5	Closed Loop (contin)	11.3 (PDC)	11.7,11.10	23
30		M	8	Ben Williams, IM Flash	Industrial visitor		
31		W	10	Stability Analysis	11.4 (PDC)	SP12	24
32		F	12	Stability Analysis (contin)		11.14, 11.18	25
33		M	15	Review	12.1-12.3 (PDC)	SP13	26
34		W	17	Exam 3			
35		F	19	Cascade Control	18.1-18.6 (PPC) 16.1 (PDC)		
36		M	22	Cascade Control	18.7-18.8 (PPC)		
37		T*	23	Special Topics	Lab Project - no formal class held		
		W	24	No Class!!			
		F	26	Thanksgiving Holiday!!			
38		M	29	Special Topics	Lab Project - no formal class held		
39	Dec	W	1	Feedforward Control	19 (PPC)	SP14,Q18.1	27
40		F	3	Controller Interaction	20 (PPC)	SP15	
41		M	5	Distillation Control			
42		W	7	Review		Sp16, Lab due	29
	Dec	Th	16	Final Exam from 7:00am-10:00am			
				PPC= Practical Process Control (Cooper)			
				PDC= Process Dynamics and Control (red book)			
				SP = Special Problem (provided by instructor)			
				xx.x = Problem from PDC			
				Qxx.x = Problem from PPC			
				This day is a "BYU Friday" where Fri classes are held on a Tues this year!!!!			