DETAILED COURSE SYLLABUS (TENTATIVE)

The following comprises a tentative syllabus describing the material to be covered in this course. Material to be covered for each dated lecture is indicated along with the corresponding sections of the required textbook, Ulaby and Maharbiz: "Circuits, 2nd Edition."

Date	Material to be Covered	HWs	Labs
Aug 27	Chapter 1:		Week 1: No
	Introduction; Charge and Current		Labs
Sept 1	Chapter 1:		Week 2: Lab
	Charge, Current, and Voltage		1—Soldering
3	Chapter 2:	HW 1	и
	Ohm's Law; KCL and KVL	Due	
8	Chapter 2:		Week 3: Lab
	KCL and KVL; Transformations		2—Equipmemt
			& Prog MSP430
10	Chapter 3:	HW 2	"
		Due	
15	Chapter 3:		Week 4: Lab
	Nodal Analysis; Mesh Analysis		3—Voltage
			Regulator
17	Chapter 3:	HW 3	"
	Inspection Analysis; Linearity and Superposition	Due	
22	Chapter 3:		Week 5: No
	Linearity and Superposition; Equivalence; Equivalence Examples		Labs (Midterm
	AND TERM EVANABLATION //A	104/2	Exam #1)
24	MIDTERM EXAMINATION #1	HW 3	
20		Due)
29	Chapter 4:		Week 6: Lab 4
0-4-1	Introduction to amplifiers; operational amplifiers	HW 4	Resistors "
Oct 1	Chapter 4:		
6	Types of amplifiers; Ideal op amp circuits Chapter 4:	Due	Week 7: Lab
0	Simple MOSFET; Introduction to Semiconductor Fabrication (Chap. 3)		5—Amplifier
	Simple MOSFET, introduction to Semiconductor Fabrication (Chap. 3)		Circuits
8	Chapter 5:	HW 5	"
	Non-Periodic Waveforms; Capacitors	Due	
13	Chapter 5:	Duc	Week 8: Lab
	Capacitors		6—Capacitors
15	Chapter 5:	HW 6	"
13	RC Circuits; Examples	Due	
20	Chapter 5:	Duc	Week 9: Lab
20	Inductors; RL Circuits		7—DC Motors
	madecord) NE direction		& Transistors
22	Chapter 7:	HW 7	"
	Phasors; AC Analysis	Due	
27	Chapter 7:	1	Week 10: No
	AC Analysis; Examples		Labs (Midterm
	, , , , , , , , , , , , , , , , , , , ,		Exam #2)
29	MIDTERM EXAMINATION #2		u
Nov 3	Chapter 9:		Week 11: Lab
	Frequency Response		8—More Filters

INTRODUCTION TO MICROELECTRONIC CIRCUITS

FALL 2015 DAVID ALLSTOT SETH SANDERS

DETAILED COURSE SYLLABUS (TENTATIVE)

5	Chapter 9:		"
	Bode Plots		
10	Chapter 9:		Week 12
	Bode Plots; Examples		
12	Chapter 9:	HW 8	u
	Active Filters	Due	
17	Chapter 9:		Week 13:
	RLC Active Filter Examples		Hack 1
19	Chapter 6:	HW 9	u
	RLC Time-Domain Analysis	Due	
24	Chapter 6:		Week 14:
	RLC Time-Domain Examples		Hack 2
26	THANKSGIVING HOLIDAY – NO CLASS		u
Dec 1	Overflow/Loose Ends		Week 15:
			Hack 3
3	Comprehensive Review	HW 10	u
		Due	
7	READING/REVIEW/RECITATION		Week 16
11	и	Project	u
		Due	
18	FINAL EXAMINATION 8:00 – 11:00 A.M. (Exam Group 17)		