

TEXT: Jaeger and Blalock, *Microelectronic Circuit Design*, 3rd Edition, McGraw Hill, 2008

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HELP / STUDY ROOM FOR ECE 255 – MSEE 180

COURSE WEBSITE: <http://shay.ecn.purdue.edu/~ee255/>

GRADING:

Homework		NO LATE HOMEWORK				
Spice Designs		100 pts.	Spice Designs are Required & have a Firm Deadline			
Class Quizzes						
Exam 1		100 pts.	Tue.,	Sept. 22	8:00 – 9:00 pm	EE 170
Exam 2		100 pts.	Mon.,	Oct. 26	6:30 – 7:30 pm	PHYS 112
Exam 3		100 pts.	Thurs.,	Nov. 19	6:30 – 7:30 pm	PHYS 112
Final		150 pts.	Fri.,	Dec. 18	7:00 – 9:00 pm	STEW 130

NO written make-up exams will be given. Course grading will be A, B, C, D, E, F, I

Course Outline

Lecture	Date	Topic	Minimum Reading Sections
16	09/28	Review of Bipolar Transistor Models	13.5
17	09/30	Common Emitter Amplifier – Analysis (<i>mid-frequency</i>)	13.7
18	10/02	Precision-Gain BJT Amplifier – Analysis (<i>mid-frequency</i>)	13.6 – 13.7
19	10/05	Common Emitter Amplifier – Design (<i>mid-frequency</i>)	13.6 – 13.7
20	10/07	Low frequency Common Emitter Amplifier analysis	16.3
21	10/09	Introduction to Field Effect Transistors	4.0 – 4.4
	10/12	October Break	—
22	10/14	FET Regions of operation	4.7 – 4.9
23	10/16	Designing for a stable operating point	4.6
24	10/19	Low frequency FET Hybrid- π model and (<i>y-parameters</i>)	13.8 – 13.9
25	10/21	Common Source Amplifier – Analysis (<i>mid-frequency</i>)	13.10
26	10/23	Common Source Amplifier – Design (<i>mid-frequency</i>)	13.11
27	10/26	Optional Meeting – Review for Exam 2 (Oct. 26)	—
28	10/28	Common Emitter/Source Amplifier review	13.12
29	10/30	Amplifier classification	14.0 – 14.2
30	11/02	Follower circuits – Analysis (<i>mid-frequency</i>)	14.3