

## *ECE255 Electronic Circuit Analysis and Design*

Text: Richard C. Jaeger and Travis N. Blalock “*Microelectronic Circuit Design*” (4th edition) Publisher, McGraw Hill, 2010.

WEEK	TOPICS	Chapters
1 (8/19/2013)	- Introduction to electronics and some basic circuit and signal theory - Amplifiers basics - Introduction to semiconductors	Chapters 1 and 2
2 (8/26/2013)	Diodes, diode models and applications	Chapter 3
3 (9/2/2013)	Diodes, diode models and applications BJT and BJT circuits	Chapter 3 Chapter 5
4 (9/9/2013)	BJT and BJT circuits	Chapter 5
5 (9/16/2013)	BJT and BJT circuits, <b>EXAM1</b>	Chapter 5
6 (9/23/2013)	MOSFET and MOSFET circuits	Chapter 4
7 (9/30/2013)	MOSFET and MOSFET circuits	Chapter 4
8 (10/7/2013)	Transistor applications and multistage circuits	Chapter 13
9 (10/14/2013)	BJT amplifiers and hybrid pi model, <b>EXAM2</b>	Chapter 13
10 (10/21/2013)	MOSFET amplifiers and small signal model,	Chapter 13
11 (10/28/2013)	Single stage transistor amplifiers	Chapter 14
12 (11/4/2013)	Multi stage transistor amplifiers	Chapter 14
13 (11/11/2013)	Frequency response and high frequency models, <b>EXAM3</b>	Chapter 16
14 (11/18/2013)	Frequency response and high frequency models	Chapter 16
15 (12/2/2013)	High frequency multistage amplifiers	Chapter 16