

COURSE SYLLABUS AND SCHEDULE

<u>Week</u>	<u>Dates</u>	<u>Topics</u>	<u>Chapter</u>
1	1/21, 1/23	Semiconductor Fundamentals: introduction, carrier modeling	1 & 2
2	1/28, 1/30	... carrier properties, distributions, and concentrations	2
3	2/4, 2/6^	... carrier action	3
4	2/11, 2/13	Metal-Semiconductor Contacts and Schottky Diodes	14
5	2/18, 2/20	pn Junction Diode: electrostatics	5
6	2/25, 2/27^	... I - V characteristics	6
7	3/4, 3/6	... junction capacitance, transient response	7 & 8
8	3/11, 3/13^	Bipolar Junction Transistor: structure and operation	10
9	3/18, 3/20	... BJT static characteristics	11
		<i>(Spring Recess 3/24-3/28)</i>	
10	4/1, 4/3^	... BJT dynamic performance	12
11	4/8, 4/10	Metal-Oxide-Semiconductor Capacitor	(Reader)
12	4/15, 4/17^	MOS Field-Effect Transistor: structure and operation	(Reader)
13	4/22, 4/24*	... I - V characteristics	(Reader)
14	4/29, 5/1	... performance limitations	(Reader)
15	5/6, 5/8^	... Advanced transistor structures	(Reader)
16	5/13	Review	

FINAL EXAM: Friday 5/23, 12:30-3:30 PM

*Design Project Due

^Quiz date