ECE 201 - Spring 2015 Schedule

DATE	LECTURE NO.	TOPICS	Reading Assign. SECTIONS	HOMEWORK SET **DUE**
1/12-M	1	General circuit element, charge, current	1.1 – 1.2	--
1/14-W	2	Voltage, sources, power	1.3 – 1.6	1
1/16-F	3	Resistance, Ohm's Law, power, dependent sources	1.7 – 1.8	2
1/19-M		**NO CLASS – MARTIN LUTHER KING JR. DAY**	--	--
1/21-W	4	Kirchhoff's Laws	2.1 – 2.3	3
1/23-F	5	Resistor combinations; voltage & current division	2.4 – 2.6	4
1/26-M	6	Dependent sources in resistive circuits	2.7 – 2.9	5
1/28-W	7	Nodal analysis	3.1 – 3.3	6
1/30-F	8	Nodal analysis, Mesh analysis	3.4 – 3.5	7
2/2-M	9	Mesh analysis	--	8
2/4-W	10	Linearity and superposition	5.1 – 5.3	9
2/6-F	11	Source transformations	5.4 – 5.5	10
2/9-M	12	Thevenin's and Norton's Theorems	6.1 – 6.4, 6.6	11
2/9-M		**Review Session #1** (8:00-10:00 pm; WTHR 200)	--	--
2/11-W	13	Thevenin's and Norton's Theorems (cont.)	--	12
2/12-Th		**EXAM #1** (6:30 – 7:30 pm; EE 129, WTHR 104, WTHR 200)	--	--
2/13-F		**NO CLASS – EVENING EXAM**	--	--
2/16-M	14	Maximum power transfer	6.7	13
2/18-W	15	Inductance and inductors	7.1 – 7.2	14
2/20-F	16	Capacitance and capacitors	7.3, 7.5	15
2/23-M	17	Inductor/Capacitor combinations	7.4	16
2/25-W	18	First-order circuits: zero input response	8.1 – 8.3	17
2/27-F	19	First-order circuits: step response	8.4	18
3/2-M	20	Linearity/Response classification	8.5 – 8.6	19
3/4-W	21	Waveform generation/Instabilities	8.7	20
3/6-F	22	Second-order circuits: LC undamped case	9.1 – 9.2	21
3/9-M	23	Second-order circuits: RLC source free case	9.3	22
3/9-M		**Review Session #2** (7:00-9:00 pm; WTHR 200)	--	--
3/11-W	24	Second-order circuits: RLC source free case or constant inputs	9.4	23
3/12-Th		**EXAM #2** (6:30 – 7:30 pm; EE 129, WTHR 104, WTHR 200)	--	--
3/13-F		**NO CLASS – EVENING EXAM**	--	--
3/16-M		**NO CLASS – SPRING VACATION**	--	--
3/18-W		**NO CLASS – SPRING VACATION**	--	--
3/20-F		**NO CLASS – SPRING VACATION**	--	--
3/23-M	25	Second-order circuits: RLC with constant inputs	--	24
3/25-W	26	Op-Amp basics: dependent source models	4.1 – 4.4	25
3/27-F	27	Analysis of circuits containing Op-Amps	--	26
3/30-M	28	Thevenin/Norton equivalents for circuits with Op Amps	6.5	27
4/1-W	29	RC Op-Amp circuits	8.8	28
4/3-F	30	Complex forcing function	10.1 – 10.4	29
4/6-M	31	Phasors: Ohm's phasor law, KVL & KCL	10.5 – 10.6	30
4/8-W	32	Impedance/admittance of 2-terminal devices	10.7	31
4/10-F	33	Sinusoidal steady-state (SSS) analysis	10.8	32
4/13-M	34	SSS analysis (cont.)	--	33
4/15-W	35	Frequency response	10.9 – 10.10	34
4/17-F	36	Instantaneous and average power	11.1 – 11.2	35
4/20-M	37	Average power and effective value	11.3	36
4/20-M		**Review Session #3** (7:00-9:00 pm; WTHR 200)	--	--
4/22-W	38	Complex power: reactive & apparent power; conservation of power	11.4 – 11.5	37
4/23-Th		**EXAM #3** (6:30 – 7:30 pm; EE 129, WTHR 104, WTHR 200)	--	--
4/24-F		**NO CLASS – EVENING EXAM**	--	--
4/27-M	39	Power factor improvement	11.6	38
4/29-W	40	Maximum power transfer	11.7	39
5/1-F	41	Review	--	40
TBA		**FINAL EXAM** (*To Be Announced*)		