

TEXT: *zyBooks*, Online interactive text book with subscription code: **WALLAWALLAENGR228Spring2020**

Notes:

- This is a live document and will be updated frequently.
- **Participation, Challenge, and Supplemental** exercises will all be due at the start of class on the date listed below.
- **Supplemental** exercises need to be scanned or photographed and submitted to the appropriate D2L Dropbox. Remember to refer to the School of Engineering Homework Standards for proper formatting of your work.

Date	Topics	Reading	Participation	Challenge	Name
	LAB0: Optional Meeting at Scheduled Time				
M	Mar 30	Course Introduction			
W	Apr 1	Circuit Representation Electric Charge and Current	1.4 1.5	All	All P1, C1
F	3	Voltage and Power Circuit Elements Ohm's Law	1.6 1.8 2.1	All All None	None None None P2
	Lab1: Introduction and DC Measurements				L1
M	6	Ohms Law, Kirchhoff's Laws	2.1,3	2.1.3-9	All P3, C3
W	8	Equivalent Circuits – Voltage and Current Dividers	2.4	2.3.1-5	2.3.1-2, Ex 2.3.11 P4, C4
F	10	Analysis Techniques – Node Voltage Method	3.2	2.4.1-6	2.4.1-3 hw5
	Lab2: Node and Mesh Analysis				
M	13	Analysis Techniques – Mesh Current Method	3.3	3.2.1-3	3.2.1-2 hw6
W	15	Super-Node and Super-Mesh Analysis	3.2-3	3.3.1-4	None hw7
F	17	Source Transformations. Thévenin and Norton Equivalent Circuits	2.4,3.8	3.2.4, 3.3.5	3.3.1 hw8
	Lab3: Thevenin and Norton Circuits				
M	20	Thévenin and Norton	3.8	2.4.7,3.8.1-2	3.8.1 hw9
W	22	Maximum Power Transfer	3.10	3.8.3-4	3.8.2 hw10
F	24	Mid-term Review, Problem Session		All	All hw11
	Lab4: Attenuator Analysis				
<b>M</b>	<b>27</b>	<b>Mid-Term Test #1</b>	<b>Chap 1-3</b>		
W	29	Capacitors, Inductors	5.2,4		

Date		Topics	Reading	Participation	Challenge	Name
F	May 1	Response of the RC Circuit	5.5	All from 5.2	All from 5.2	hw12
		Lab5: First-Order Circuits				
M	4	Response of the RC Circuit	5.5			
W	6	Response of the RL Circuit	5.6	All from 5.5	All from 5.5	hw13
F	8	Parallel RLC Circuits	6.8	All from 5.6	All from 5.6	hw14
		Lab6: Second-Order Circuits - Part I				
M	11	Parallel and Series RLC Circuits	6.2,4-8	All from 6.1	All from 6.1	hw15
W	13	Parallel and Series RLC Circuit Examples	6.2,4-8	All from 6.8	None	hw16
F	15	AC Analysis – Sinusoids and Complex Numbers	7.1-2	All from 6.4	None	hw17
		Lab7: Second-Order Circuits – Part II				
M	18	AC Analysis – Phasor Domain (Guest Lecture)	7.4-5	All from 7.1-2	All from 7.1-2	hw18
W	20	AC Analysis	7.10	All from 7.4-5	None	hw19
F	22	AC Analysis, Mid-term Review	7.10	Additional	Prob. 7.10-2,8,15	hw20
		<b>No Lab This Week</b>				
<b>M</b>	<b>25</b>	<b>Memorial Day: No Class</b>				
<b>W</b>	<b>27</b>	<b>Mid-Term Test #2</b>				
F	29	AC Power – Periodic Waveforms and Average Power	8.1,2			
		Lab8: Power Measurements				
M	Jun 1	AC Power – Average and Complex Power	8.2,4	All from 8.1	None	hw21
W	3	AC Power – Complex Power and Power Factor	8.4,5			
F	5	Results, Conclusions, Final Quiz		All from 8.2,4	All from 8.4	hw22
<b>W</b>	<b>10</b>	<b>No Final Exam (2:00 – 4:00pm)</b>				