ELE220 Passive Circuits (3 Credits) Syllabus Fall 2021

Course Instructor: Dr. A. J. Davis <u>davis@ele.uri.edu</u>

Office Hours:	TBD (by appointment)
Lecture:	Tu, Th 05:00-06:50 Woodward Hall 318 (Note: No Final Exam)
-	Matthew Sadiku, <i>Fundamentals of Electric Circuits</i> , McGraw-Hill, tion, 2021 ISBN: 978-1-260-22640-9.

Pre-Requisite (min): Received a passing grade in: PHY204.

Description: Electrical circuit laws & theorems, transient & steady-state analysis, frequency response, resonance. Diode and transistor circuits & op amps.

Week	Topics	TB Chapter	
1	Course Overview; Current, Voltage, Power		1
2	Resistor, Ohm's Law, KVL, KCL		2
3	Bridge Circuits; Nodal & Mesh Analysis		2-3
4	Biploar Junction Transistor (BJT) - DC Circ	uits	3
	Exam 1 (est)		
5	Linearity & Superposition		4
6	Operational Amplifiers		5
7	Op Amp Circuits		
8	Exam 2 (est)		5
9	Capacitors & Inductors		6
10,11	Sinusoids & Phasors		9
12	Frequency Response		14
13	Exam 3		
Grading :			
~	Exams	85%	
	Homework	15%	