

Collapse All













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	KnightCh23Problems.pdf		
	Matlab tip sheet 5 pts		
	Arduino tip sheet 5 pts		
	SolderingIronDirections.pdf		

























**Writing & Multiliteracy Center Info for Spring 2024 EMEC/PHYS 310 - Rasnow**




































































	 Introduction	 	 
	EMEC-Phys 310 Syllabus Rasnow F2025.pdf		
	Objectives		
	1abToolbox.pdf		
	1acMoreIntro.pdf		







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<div><div><div></div></div><div>soldering tips</div></div>	<div><div>✓</div><div>⋮</div></div>
<div><div><div></div></div><div><div>Series and Parallel</div><div>Jan 28 5 pts</div></div></div>	<div><div>✓</div><div>⋮</div></div>
<div><div><div></div></div><div><div>Voltage and current</div><div>Feb 1 5 pts</div></div></div>	<div><div>✓</div><div>⋮</div></div>
<div><div><div></div></div><div><div>Voltage and Current Quiz</div><div>Feb 6 8 pts</div></div></div>	<div><div>✓</div><div>⋮</div></div>
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	▼ LED Nightlight		▼
		+	⋮
	2ab DesignChallenge-CharacteristicCures.pdf		⋮
	m03_LEDnightlight.mlx		⋮
	Voltage divider equation Feb 4 5 pts		⋮
	Lab#1 LED nightlight Feb 18, 2024		⋮
	LEDNightLight.docx		⋮
	LED Nightlight Quiz Feb 11 10 pts		⋮

	▼ LM317 power supply		▼
		+	⋮
	m04_LM317.mlx		⋮
	Q & A 3 Feb 14 5 pts		⋮

	DC Power Supply Lab Report Feb 17 100 pts		
	Quiz on Boysen & Kybett Ch. 1 and 2 Feb 16 6 pts		
	▼ Arduino and Automation		
	+		
	Arduino Serial Driver: To get your Arduino working: https://learn.sparkfun.com/tutorials/how-to-install-ch340- drivers/all		
	4aAutomation.pdf		
	m05_AutomatedIVcurves.mlx		
	Q & A 4 Feb 20 5 pts		
	Here's another sample lab report.		
	Exploring Arduino Analog Input Resistance.pdf		
	Lab #3 Automated I-V curves Mar 3, 2024 10 pts		

	AutomatedIVcurvesLabReport.pdf		
	ivData20feb24.mat		
	▼ Transistors	 	 
	transistorTheory2023.pdf		
	m06_TransistorGain.mlx		
	Q & A 5 Feb 27 5 pts		
	Lab 4 Transistor gain Mar 14 100 pts		
	TransistorCircuits,FET,switches.pdf		
	m07_TransistorSwitches.mlx		
	Boysen Ch 3-4 NPN Transistor Mar 11 6 pts		
	Transistors Aug 26, 2023 5 pts		

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	▼ Arduino Meets Matlab		
			
	m08_MatlabMeetsArduino.mlx		
	Arduino Meets Matlab Sep 6, 2023 5 pts		
	Arduino Quiz Mar 24 7 pts		

	▼ Microphones, op amps, and AC voltages		
			
	8a Capacitors & AC I. Theory22.pdf		
	8b Capacitors & AC II. Simulation.pdf		
	7 OpAmps.pdf		



Oscilloscope Lab (MicOpAmpsSpectra lab)

Mar 30 | 100 pts



m09_OpAmpsSpectra.mlx



▼ Capacitors, PWM, & AC



8c Capacitors & AC III. PWM filter.pdf



Boysen Chapters 5-6 Quiz

Apr 14 | 11 pts



m10_PWMFiltering.mlx



▼ Arduino controlled DC power supply



m11_ArduinoControlledLM317.mlx




m12_ModelingLM317Controller.mlx



Q & A



Apr 15 | 5 pts

































Arduino Controlled DC Power Supply



Apr 21 | 100 pts





























	<div>▼ Function generator</div>	<div></div> <div></div>
	m13_FunctionGenerator.mlx	<div></div>
	Oscilloscope_Fundamentals_Poster_3GW_60028_11x17 (1).pdf	<div></div>
	Q & A -- International Experience Apr 28 5 pts	<div></div>
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	oscope3.m	<div></div>
	m15_AutomatedFGen.mlx	<div></div>


















▼ **Bode plot and Review**





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	ch6SelfTest.mlx		
	Bode Plot May 12, 2024		
	Resonance.mlx		
	stochasticResonance.mlx		
	LabReviews.pdf		
	310 Concept Matrix-4.xlsx		
	16Review.pdf		

	▼ Finals		
			
	16Review.pdf		
	Final Exam May 12 24 pts		

	Self Assessment May 12 3 pts		
	Portfolio May 16 100 pts	