SCHEDULE: PHYSICS III
PS228, SPRING 2019

Embry-Riddle Aeronautical University
Daytona Beach Campus

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Tentative* Class Schedule: **Will be subject to change! – Homework assignments will be announced over time.*

Date	Lecture Topic(s) and Reading	Homework Due
Thu, Jan 10, 2019	Electric Charge and Coulomb's Law: 21.1-21.3	
Tue, Jan 15, 2019	Electric Fields and Forces, Distributions: 21.4-21.5	
Thu, Jan 17, 2019	Field Lines and Electric Dipoles: 21.6-21.7	
Tue, Jan 22, 2019	Electric Flux and Gauss's Law: 22.1-22.5	Problem Set #1
Thu, Jan 24, 2019	Electric Potential Energy and Potential: 23.1-23.2	
Tue, Jan 29, 2019	Electric Potential Applications: 23.3-23.5	Problem Set #2
Thu, Jan 31, 2019	Capacitance, Capacitors, and Energy: 24.1-24.4	
Tue, Feb 5, 2019	Electrostatics Examples	Problem Set #3
Thu, Feb 7, 2019	**Exam #1 Electrostatics 21.1-24.4**	
Tue, Feb 12, 2019	Current, resistivity, and resistance: 25.1-25.3	
Thu, Feb 14, 2019	Electromotive Force, Energy, Power: 25.4-25.5	
Tue, Feb 19, 2019	Resistor Combinations and Kirchoff's Laws: 26.1-26.2	Problem Set #4
Thu, Feb 21, 2019	Magnetic Force / Fields / Flux: 27.1-27.4	
Tue, Feb 26, 2019	Forces and Torques on Currents: 27.5-27.7	Problem Set #5
Thu, Feb 28, 2019	Moving charges / currents, Biot-Savart law: 28.1-28.3	
Tue, Mar 5, 2019	Magnetostatics Examples	Problem Set #6
Thu, Mar 7, 2019	**Exam #2: Circuits / Magnetics 25.1-28.3**	
Tue, Mar 12, 2019	*Spring Break*	
Thu, Mar 14, 2019	*Spring Break*	
Tue, Mar 19, 2019	Forces, Torques: 28.4-28.5; Ampere's law: 28.6-28.7	
Thu, Mar 21, 2019	Induction and Faraday's law: 29.1-29.3	
Tue, Mar 26, 2019	Motional EMF and Induced fields: 29.4-29.5	Problem Set #7
Thu, Mar 28, 2019	Inductance and Energy: 30.1-30.3	
Tue, Apr 2, 2019	RC, LR Circuit Transients: (~ 26.4, 30.4)	Problem Set #8
Thu, Apr 4, 2019	Maxwell's Equations and Displacement Current 29.7	
Tue, Apr 9, 2019	Examples and Review	Problem Set #9
Thu, Apr 11, 2019	**Exam #3: Magnetics / Induction 28.4-30.4**	
Tue, Apr 16, 2019	AC Circuits, Impedance, Power, Resonance: (~ 31.1-31.5)	
Thu, Apr 18, 2019	Electromagnetic Waves, Energy, Momentum: (~ 32.1-32.4)	
Tue, Apr 23, 2019	Waves Examples Review, Continuation	
Thu, Apr 25, 2019	Final Exam Review / Class Wrap-up	Problem Set #10
Sat, Apr 27, 2019	**Final Exam: 10:15-12:15 (!!!)**	