

PHY2054.002				
Date	Lecture Topics	Cutnell & Johnson	Lab Topic	Recitation
Week 1 Aug. 24, 26.	Charge, Electric force, Coulomb law, Electric field, Gauss law.	Ch 18.	Orientation, schedules, etc.	No recitation this week
Week 2 Aug. 31, Sept. 2.	Electric potential energy and electric potential	Ch. 18, 19	Linear Regression and Analysis	Ch.18, #7, #12, #47, #53
Week 3 Sept. 7, 9.	Equipotential surface, Capacitors and dielectrics	Ch. 19	Charge, Equipotential, Field Mapping	Ch.19, #11, #19, #36, #45
Week 4 Sept. 14, 16.	Electric circuits, Ohm's law, resistance, Alternating current, series wiring, Parallel wiring	Ch. 20	DC Measurements I	Ch. 20, #10, #26, #53, #65
Week 5 Sept. 21, 23.	Magnetic Forces & Magnetic Fields	Ch. 20, 21	DC Measurements II	Ch. 20, #81, #97 Ch. 21, #9, #23
Week 6 Sept. 28, 30.	Magnetic Forces & Magnetic Fields	Ch. 21	Resistance and Electric Circuits	Ch. 21, #7, #10 #17, #32
	EXAM 1	Ch. 18-20		
Week 7 Oct. 5, 7.	Electromagnetic Induction	Ch. 22	Magnetic Field and Induction	Ch. 21, #43, #63 Ch. 22, #1, #17
Week 8 Oct. 12, 14.	Electromagnetic Induction, AC circuits	Ch. 22, 23	Capacitors, Inductors: Charging, Discharging	Ch. 22, #21, #24 #41, #52
Week 9 Oct. 19, 21.	AC circuits	Ch. 23	Oscilloscope: AC Measurements	Ch. 23 #19, #26, #29, #34
Week 10 Oct. 26, 28.	Electromagnetic waves	Ch. 24	Capacitors and Inductors: Reactance	Ch.24 #4, #12, #20, #32
	EXAM 2	Ch. 21-23		
Week 11 Nov. 2, 4.	Electromagnetic waves	Ch. 24	Reflection, Refraction and Ray Tracing	Ch.24 #38, #46, #50, #57
Week 12 Nov. 9, 11.	The Reflection of Light	Ch. 25	Lenses, Imaging and Intensity	Ch.25 #7, #14, #16, #25
Week 13 Nov. 16, 18.	The Refraction of Light: Lenses & Optical instruments	Ch. 26	Interference and Diffraction	Ch.26 #17, #31, #40, #46
Week 14 Nov. 23, 25.	The Refraction of Light: Lenses & Optical instruments	Ch. 26	Spectroscopy (make-up lab for all sections)	Ch.26 #68, #81, #88, #94
	EXAM 3	Ch. 24-26		
Week 15 Nov. 30, Dec. 2.	Interference and Wave nature of light	Ch. 27	Spectroscopy (make-up)	Review
Thur., Dec. 9, 1:00pm-3:50pm	FINAL EXAM (COMPREHENSIVE)	Chapters 18-27	Final	