

PHY142: General Physics II (Spring 2016)

(Tentative Syllabus, Subject to Updates)

Date	Topic	Reading
T 01/12/16	Intro and Charge	16.1-16.3
W 01/13/16	Coulomb's Law	16.5-16.6
F 01/15/16	The Electric Field	16.7-16.9
M 01/18/16	No Class (Martin Luther King Jr. Day)	
W 01/20/16	Electric Potential	16.11; 17.1-17.3
F 01/22/16	Electric Potential II	17.4-17.5
M 01/25/16	Capacitance	17.7-9
W 01/27/16	Batteries, Circuits, Resistors	18.1-18.3
F 01/29/16	Resistivity and Electric Power	18.4-18.7
M 02/01/16	DC Circuits: Parallel and Series	19.1-19.2
W 02/03/16	Kirchoff's Rules; Capacitors	19.3; 19.5-19.7
F 02/05/16	Intro to Magnetic Fields	20.1-20.2; Review
M 02/08/16	Exam #1: Chapters 16-19	
W 02/10/16	Magnetic Fields and forces	20.3-20.5
F 02/12/16	More Forces and B Fields, Applications	20.6-20.7; 20.10
M 02/15/16	More Forces and B Fields, Applications	20.12, 21.1-21.2
W 02/17/16	EMF Generators	21.3-21.6
F 02/19/16	Transformers and Induction	21.7-21.8
M 02/22/16	EM waves	22.1-22.4
W 02/24/16	Plane Mirrors and review	23.1-23.2
F 02/26/16	Spherical Mirrors, index of refraction	23.3-23.4
M 02/29/16	Snell's Law and Lenses	23.5-23.8
W 03/02/16	Wrap up and review	
F 03/04/16	Exam #2: Chapters 20-23	
M 03/07/16	No Class (Spring Break)	
W 03/09/16	No Class (Spring Break)	
F 03/11/16	No Class (Spring Break)	

M 03/14/16	Dispersion and Interference	24.1; 24.3-4
W 03/16/16	Diffraction Gratings, Thin Films	24.5-6; 24.8
F 03/18/16	Polarization; Blue Sky; Cameras	24.10, 24.12; 25.1
M 03/21/16	Human Eye; Magnifiers	25.2-25.3
W 03/23/16	Telescopes; Resolution	25.4; 25.7-9
F 03/25/16	No Class (Easter)	
M 03/28/16	No Class (Easter)	
W 03/30/16	Relativity part 1	26.1-26.3
F 04/01/16	Relativity Part 2	26.4-26.5
M 04/04/16	Relativity part 3	26.7-26.11
W 04/06/16	Early Quantum Theory	27.1-27.4
F 04/08/16	Waves-Particles; Model of atom	27.6-27.8; 27.10
M 04/11/16	Atoms and wrapup	27.11-27.13
W 04/13/16	QM; Uncertainty	28.1-3; 28.5-6
F 04/15/16	Exam #3: Chapters 24-27	
M 04/18/16	QM; Uncertainty	28.7-8; 28.10-11
W 04/20/16	Radioactivity and alpha decay	30.1-30.4
F 04/22/16	alpha, beta, gamma decay; dating	30.5-30.10
M 04/25/16	Fission	30.11; 31.1-2
W 04/27/16	Fusion; Radiation and the Body	31.3-7
F 04/29/16	PET, NMR, MRI; review	31.9; 33.1-33.2
M 05/02/16	Final Exam (10:30 am - 1:00 pm)	
W 05/04/16		
F 05/06/16		