

PHYSICS 2140 Summer Semester 2013, **SCHEDULE OF CLASSES AND HOMEWORK**

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Textbook: *Fundamentals of Physics* by Halliday, Resnik, and Walker, 9th edition

Course link: <http://astro1.panet.utoledo.edu/~vkarpov/Physics-2140.htm>

Date		Topic	Homework	Tests
6/24	M	Introduction, Ch. 21: Electric Charge, Electrons and Photons	Q. 1,2; P. 2,7,13,65	
6/25	T	Lecture, Ch. 21: Coulomb's Law , Ch. 22: The Electric Field	Q. 3,5,7,9; P.5,19,24,34	
6/26	W	Lecture, Chs. 22,23: Properties of the electric field		
6/27	R	Lecture, Ch. 23: Gauss's Law	Q.2,5,10; P.1,5,15,16,32	
6/28	F	Review and Exam		Exam Ch.21-23
7/01	M	Lecture, Ch. 24: The electric potential		
7/02	T	Lecture: Ch. 25: Capacitance and Dielectrics		
7/03	W	Lecture: Ch. 25: Electric field energy , <i>Electrostatics Review</i>	Q. 1,10; P.1,4,9,25,31,39	
7/04	R	No Classes, Independence day		
7/05	F	Review and Exam		Exam Ch.24-25
7/08	M	Lecture: Ch. 26: Electric Current	Q. 1,3,10; P.1,16,17,18,35,49	
7/09	T	Lecture: Chs. 26,27: DC Circuits and Power	Ch.27 Q. 1,3,5;P. 5,7,22,46,49	
7/10	W	Lecture, Ch. 27: Exponential growth and decay		
7/12	R	Lecture, Ch. 28: Magnetic Fields	Q. 1,7; P.3,15,18,33,39,47	
7/13	F	Review and Exam		Exam Ch. 26-28
7/15	M	Lecture, Ch. 29: Ampere's Law	Q. 4,5; P. 7,9,37,49	
7/16	T	Lecture, Chs. 28,29: Electromagnetism		
7/17	W	Lecture, Ch. 30: Inductance	Q. 1,3,7; P. 2,3,5,29,42,44	
7/18	R	Lecture, Ch. 31: Electromagnetic Oscillations	Q. 3,4,7; P. 1,5,10,19,39,55	
7/19	F	Review and Exam		Exam Ch. 29-31
7/22	M	Lecture, Ch. 32: Maxwell's Equations, Magnetic Materials	Q. 1,3; P. 5,12,30,37,45	
7/23	T	Lecture, Ch. 33: Electromagnetic Waves		
7/24	W	Lecture, Chs. 33,34: Light Waves and Optics	Ch.33 Q. 1,2,7; P.2, 6, 13, 31, 45, 49. Ch.34 Q. 1,5,7; P. 3,7,47,51,55	
7/25	R	Lecture, Chs. 33,34: Light Waves and Optics		
7/26	F	Ch. 32-34: <i>Review, Exam</i>		Exam Ch. 32-34
7/29	M	Ch. 35: Interference: The General Idea and the Double Slit	Q.2,4,6; P.3,5,14,17,19,25,31,35,39	
7/30	T	Lecture, Ch. 36: Diffraction: The single slit, diffraction grating, and spectroscopy	Q. 1, 8; P. 1,7,9,17,19,35	
7/31	W	Lecture, Ch. 37: Special Relativity	Q. 3,10; P. 1,27,35,43,44	
8/01	R	Lecture, Ch. 38, Relativistic Mechanics		
8/02	F	Review, Exam		Exam Ch. 35-38