

Physics 1314 Physics Perspective Syllabus
Spring 1998

Prof. Richard Stroynowski, Room 6 FS (768-4076) e-mail ryszard@mail.physics.smu.edu

Text: Physics Fourth Edition, by John D. Cutnell and Kenneth W. Johnson

Office hours: Monday: 9:00 a.m - 12 a.m. and 2:00 p.m. - 4:00 p.m. Also by appointment.

Web site : <http://www.physics.smu.edu/~ryszard/1314sp98/>

DATE	LECTURE TOPIC	READING	HOMEWORK
Jan 12	Introduction; Electric Force	Ch. 18	Ex. 3,7,11,15,27,31,35
Jan 13	Laboratory session canceled		
Jan 14	Electric Field		
Jan 19	Martin Luther King Holiday	Ch. 19	Ex. 2,3,12,16,19,31,40
Jan 20	Measurement and Measurement Error (L)		
Jan 21	Electric Potential		
Jan 26	Electric circuits	Ch. 20	Ex.2,3,6,35,42,51,77,90
Jan 27	Ohm's Law (L)		
Jan 28	Electric circuits		
Feb 2	Magnetic Force	Ch. 21	Ex. 1,2,11,31
Feb 3	Electrical Measurements (L)		
Feb 4	Magnetic Force		
Feb 9	Induction	Ch. 22	Ex. 3,12,30,52,60
Feb 10	Review		
Feb 11	Test 1		
Feb 16	Alternating currents	Ch. 23	Ex. 1,4,10,18
Feb 17	Magnetic Dipole Moment (L)		
Feb 18	Alternating currents		
Feb 23	Electromagnetic waves	Ch. 24	Ex. 2,3,7,8,16
Feb 24	Electromagnetic Induction (L)		
Feb 25	Electromagnetic waves		
Mar 2	Optical mirrors	Ch. 25	Conceptual problem 1,3
Mar 3	Plane Mirror or The Eye (L)		Ex. 1,5,16
Mar 4	Mirrors		
Mar 9	Spring break		
Mar 10	Spring break		
Mar 11	Spring break		

Mar 16	Optical instruments	Ch. 26	Ex. 5,6,9,14,29,51
Mar 17	Review		
Mar 18	Test 2		
Mar 23	Interference	Ch. 27	Ex. 3,21,34
Mar 24	Refraction and Snell's Law(L)		
Mar 25	Interference		
Mar 30	Relativity	Ch. 28	Ex. 1,3,11,12,26
Mar 31	The thin convex lens (L)		
Apr 1	Relativity		
Apr 6	Particles and waves	Ch. 29	
Apr 7	Diffraction (L)		
Apr 8	Particles and waves		
Apr 13	Atomic physics	Ch. 30	
Apr 14	The Hydrogen Spectrum (L)		
Apr 15	Atomic physics		
Apr 20	Test 3	Ch. 31	
Apr 21	Radioactivity (L)		
Apr 22	Elementary particles		
Apr 27	Elementary particles		
Apr 28	Make-up labs		
Apr 29	Review		

Final Examination: 123 FS 11:30 a.m. - 2:30 p.m. Friday, 8 May 1998

GRADING

Students are expected to read one chapter of textbook per week and solve the homework problems. Homework problems are due on Mondays following the week devoted to the corresponding chapter.

Homework	10%
Lab Reports	30%
Tests	30%
Final	30%

Tests and the final are closed book. Two pages of notes are permitted. Homework is counted as either handed in (50% of the problems are honestly attempted) or not handed in.