

PHYS 201 COURSE SYLLABUS, Summer 2009-10

Course Director: Prof. S.M. Bose (Disque 905, bose@drexel.edu)

Textbooks: **UNIVERSITY PHYSICS:** by H. D. Young and R. A. Freedman, 12th ed.
Pearson/Addison Wesley, **with required access to Mastering Physics Online**
PHYSICS Lab Manual by R. Ramos and S. Tyagi, Pearson/Addison Wesley.

Course Website: <http://www.physics.drexel.edu/~jschreck/twoohone.html>

Schedule of Lectures and Recitation Exercises/Problems

Week-1 .

Lecture: Chapter 13: secs.1-6

Periodic Motion

Recitation Problems: CH-13 : 4, 11, 13, 19, 31, 50,57,65

Week-2

Lecture: Chapter 15: secs. 1- 8

Mechanical Waves

Recitation Problems: CH-15 : 8, 16, 21, 33, 39, 45, 29, 52, 65

Week-3

Lecture: Chapter 32 : secs. 1-6

Electromagnetic Waves

Recitation Problems: CH-32 : 8, 13, 16, 26, 35, 39, 49, 45

Week-4

Lecture: Chapter 33: secs.1-6

The Nature of Light

Recitation Problems: CH-33 : 3, 47, 19, 22, 25, 33, 59 , 24, 36

Week-5

Lecture: Chapter 35: secs. 1-5

Interference

Recitation Problems: CH-33: 41,44 **CH-35:** 4, 8, 14, 28, 33, 41 ,44

Week-6

This Friday is the LAST DAY to Withdraw from a Course

Lecture: Chapter 36: secs. 1-7

Interference/Diffraction

Recitation Problems: CH-35: 58 **CH-36:** 1, 9, 13, 14, 20, 26, 29, 41

Week-7

Lecture: Chapter 37: secs. 1-5

Special Relativity

Recitation Problems: CH-37: 1, 2, 4, 13, 15, 23,
29,33

Week-8 (5/18/10)

Lecture: Chapter 38: secs. 1-9

Photons, Electrons and Atoms

Recitation Problems: CH-38: 3, 12, 13, 15, 24, 25, 39, 37, 43

Week-9 (5/25/10)

Lecture: Chapter 39: secs. 1-5

Wave Nature of Particles

Recitation Problems: CH-39 : 5, 9, 24, 38, 48, 35, 70

Week-10 (6/01/10)

Lecture: Chapter 40: secs. 1-5

Quantum Mechanics

Recitation Problems: CH-40: 5, 39, 22, 12

+ discussion and review of any topics that may not have received adequate coverage.

Note: Some changes may be made to the Syllabus whenever considered appropriate.