

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Department of Physics

Physics 8.01x

Fall Term 2002

SYLLABUS WEEKS 1 AND 2

Text: H. D. Young and R. A. Freedman, *University Physics*, 10th Edition, Addison-Wesley, Reading Mass (2000).

Wednesday Sept 4 Lecture 1: Introduction to 8.01X, measurement standards

Hand out Experiment ES problem, due Sept 13

Friday Sept 6 Lecture 2: Units, dimensions, scaling

Mechanics Baseline Test I

Hand out Problem Set 1, due Sept 13, hand out Red Boxes

Readings: YF Chapter 1.1-1.7, pp. 1-10

Monday Sept 9 Lecture 3: Fermi problems, Experiment ES

Hand out remaining Red Boxes

Readings: Experiment ES

Wednesday Sept 11 Lecture 4: Kinematics: 1D motion, displacement and velocity

Hand out Project LVPS problem, due Sept 20

Readings: YF Chapter 2.1-2.3, pp. 31-36

Friday Sept 13 Lecture 5: 1D motion, velocity and acceleration

Mechanics Baseline Test II

Hand out Problem Set 2, due Sept 20

Readings: YF Chapter 2.4-2.7, pp. 37-52

Due Dates:

Sept 10, 10 pm:

CyberTutor Intro and Assignment 1

Sept 13, 4 pm, 4-339B:

Experiment ES

Problem Set 1

Experiment ES check-off required this week