

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Department of Physics

Physics 8.01x

Fall Term 2001

SYLLABUS WEEKS 1 AND 2

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

Wednesday Sept 5 Lecture 1: Introduction to 8.01X, measurement standards

Hand out Experiment Flow, Due September 14

Friday Sept 7 Lecture 2: Units, dimensions, scaling

Hand out Problem Set 1, due Sept 14, hand out Red Boxes

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

Monday Sept 10 Lecture 3: Experiment Flow, Fermi problems

Hand out remaining Red Boxes Readings: Experiment Flow

Wednesday Sept 12 Lecture 4: Kinematics: 1D motion, displacement and velocity

Hand out Project LVPS, due Sept 21

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

Friday Sept 14 Lecture 5: 1D motion, velocity and acceleration

Hand out Problem Set 2, due Sept 21

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

Due Dates:

Sept 7, 10 pm: CyberTutor Intro

Sept 9, 10 pm: CyberTutor Assignment 1

Sept 11, 10 pm: CyberTutor Assignment 2

Sept 14, 5 pm, 4-339B: Experiment Flow writeup and problems, Problem Set 1