

Elements of Physics
PHYS 1010Q
Syllabus Summer 2011

- Instructor:** SANDIPAN BANERJEE
- Course:** Lectures – MW 5:00pm to 8:15pm at UConn Hartford (HART304)
Labs – TuTh 5:00pm – 8:00pm (HART214)
- Office:** P 210 (UConn Phys. Dept. - Storrs Campus), 215A (Hartford Campus)
- Office Hours:** Mondays and Wednesdays 3:30 pm – 5:00 pm (before class in Hartford campus).
- E-Mail:** banerjee@phys.uconn.edu
- Phone:** (860) 486 – 3500
- Textbooks:** “*PHYSICS - A Conceptual World View*” (7th edition) by Kirkpatrick and Francis and “*Discovering Physics by Experiment*” by Walker (Lab Manual).
- HuskyCT:** Please check <http://www.huskyct.uconn.edu> for Lecture Notes, Homework, solutions and also grades.
- Expectations:** Students who attend the lectures regularly tend to do well in the course. Late arrivals, early departures and also cell phone use in the class is discouraged. Plagiarism or any other type of academic misconduct will not be tolerated. Please refer to http://www.community.uconn.edu/academic_misconduct_faq.html for more information.
- Laboratory:** Labs are an integral part of the course.
- Grade:** The Final Grade in the course would comprise of:
25% - Labs
10% - Homeworks
20% - Exam I
20% - Exam II
25% - Exam III (Final)

Exams will typically last for 1.5 hrs at the beginning of the lecture. No make-ups for missed exams. In case of well documented medical or family emergency, the grade on the final exam would be used for a missed exam.

Tentative Schedule for Lectures & Exams:-

Week (1): (July 11, 13)	Chap. 1, 2, 3 & 4(pp 60 -65) Intro, Motion, Forces & Acceleration and Circular Motion HW # 1, 2
Week (2): (July 18, 20)	Chap. 5, 6, 7, 8 Gravity, Momentum, Energy, Rotational Motion HW# 3, 4 Exam #1 (7/20): Chap. 1, 2, 3, 4, 5, 6, 7
Week (3): (July 25, 27)	Chap. 11, 12, 13, 15 Structure of Matter, States of Matter, Thermal Energy, Vibrations and Waves HW # 5, 6
Week (4): (Aug. 1, 3)	Chap. 17, 18, 19, 16 Light, Refraction, Model for Light, Sound HW # 7, 8 Exam # 2 (8/3): Chap. 11, 12, 13, 15, 16, 17
Week (5): (Aug. 8, 10)	Chap. 20, 21, 22 Electricity, Current, Electromagnetism HW # 9, 10
Week (6): (Aug. 15, 17)	Chap. 23, 24, 25, 26 Early Atom, Modern Atom, Nucleus, Nuclear Energy Final Exam (8/17): Everything except Chap. 23, 24, 25, 26

Home-works would be typically assigned after every Lecture, but would be due the following Monday at the beginning of the class, when the solutions will be discussed. Home-works would be graded more for completeness rather than accuracy. Both home-works and exams would contain questions involving conceptual understanding and problem solving skills.

The goal of the course is to familiarize you with the key concepts of physics and their applications in real-life events in your day-to-day lives.

Tentative Schedule for Laboratory :-

Week (1)	12-Jul	NO LAB
	14-Jul	Scientific Method
Week (2)	19-Jul	Space and Matter
	21-Jul	Forces
Week (3)	26-Jul	Motion
	28-Jul	Fluids
Week (4)	2-Aug	Heat
	4-Aug	Sound
Week (5)	9-Aug	Electricity & Magnetism
	11-Aug	Atoms
Week (6)	16-Aug	Make-up/ Review
	18-Aug	NO LAB