

PHYSICS 212, SUMMER II, 2005
JUNE - 29 to JULY - 28

INSTRUCTOR: KUMAR BHATT
OFFICE: LEWIS HALL, ROOM 121B, Ph 915 - 5611
OFFICE HOURS: 3-4pm, M - F

TEXT: FUNDAMENTALS OF PHYSICS, 7TH Edition
[HALLIDAY, RESNICK AND WALKER]

The course will cover selected material from Parts 3 and 4 [chapters 21 - 37] of the text. The main objectives of the course are to study:

- 1] Electric forces and electric phenomena,
- 2] Magnetic forces and magnetic phenomena,
- 3] Electromagnetic phenomena/ electromagnetic waves

We will also study properties of light such as propagation, reflection, refraction, interference, diffraction and polarization.

We will discuss special theory of relativity and quantum nature of light.

GRADES will be determined by 3 tests, homework and the final comprehensive examination.

HOMEWORK shall be assigned every day and shall be due the next day. It shall contribute 15 percent to the final grade.

TESTS will be given on July 5, 11, 18, and 25. The test with the lowest grade will be dropped when determining the final grade. The remaining three tests will contribute a total of 60 percent to the final grade.

THE FINAL EXAM will contribute 25 percent to the final grade.