

PHYSICS – 212, SUMMER – 2,
JUNE – 25 to JULY – 24

SYLLABUS

TEXT: Fundamentals of Physics

[Halliday, Resnick and Walker, 8th Edition]

INSTRUCTOR: KUMAR. BHATT[105 Lewis Hall]

Phone: 915-5319

Office Hours: 3 – 4 pm M-Tu-W-Th
[or other mutually convenient time]

We will discuss the electric and magnetic nature of matter. We will study the laws that describe how static electric charges and currents give rise to static electric and magnetic fields. We will discuss the properties of electromagnetic fields produced by time varying motions of charges and explain why light is regarded as consisting of electromagnetic waves.

We will finally discuss the basic properties of light such as propagation, image formation, interference and diffraction.

If there is time we will briefly discuss the theory of relativity.

GRADING will be determined by:

a] 3 Tests [July 6, 13 and 20, Mondays]

b] 3 Quizes [July 2, 10, 17]

c] Final [July 23 or 24]

d] Home Work

The Tests will contribute 15% EACH to the final grade.[45% FOR THE THREE TESTS]

The Quizes will contribute 15% to the final grade.

Final Exam will contribute 25% to the final grade.

Home Work will contribute 15% to the final grade.
[Home Work will be assigned every day and will be due the next day].