Spring 2012  Physics II  PHYS-UA 93 001

COURSE INFORMATION & SYLLABUS

Professor Andrew MacFadyen

Office: 505 Meyer

e-mail: macfadyen@nyu.edu

Office Hours: by appointment. (Set up after class or by e-mail)

Course has lectures and recitation.

Text books:


E. Purcell “Electricity and Magnetism” McGraw-Hill (recommended).

2 Exams: Midterm and Final Exam

Homework: Weekly Problem Sets. Due at Recitation.

Grading: 40% Homework, 20% Midterm, 40% Final

Recitation: weekly discussions; make good use of them! Be interactive
Lecture - Tuesday & Thursday  11:00 – 12:15, Room 121 Meyer.

Recitation – 4 sections, all in room 264 Meyer:

Wed. 2:00 – 3:15; Wed. 5:00 – 6:15; Thur. 2:00-3:15, Thur. 5:00-6:15

SYLLABUS:

• Electric fields of point and distributed charges. [Chs. 13-16]

• Electric Potential and relation to Potential Energy. [Ch. 17]

• Magnetic Field. [Ch. 18]

• Circuits and circuit elements. [Ch. 19, 20]

• Magnetic Force. [Ch. 21]
• Patterns of Electric and Magnetic Fields  [Ch. 22]

• Electric and magnetic fields; Maxwell’s Equations [Ch. 23]

• Electromagnetic Radiation [Ch. 24]