
Useful link: http://hyperphysics.phy-astr.gsu.edu/hbase/HFrame.html (HyperPhysics)

Attendance: Attendance is not mandatory but highly recommended. Homework assignment, turn in and unexpected quizzes will be given in class.

Homework: Homework due on Tuesday at the beginning of the class.

Exams: There will be two Midterms and a Final Exam. Make-up for exams will not be given.

Grade: Final = Homework*20% + (in class quizzes)10% + Midterms*40% + (Final Exam)*30%

Contents:

PART 3
- Electric Charge
- Electric Fields
- Gauss' Law
- Electric Potential
- Capacitance
- Current and Resistance
- Circuits
- Magnetic Fields
- Magnetic Fields Due to Currents
- Induction and Inductance
- Electromagnetic Oscillations and Alternating Current
- Maxwell's Equations; Magnetism of Matter

PART 4
- Electromagnetic Waves
- Images
- Interference
- Diffraction
- Relativity

PART 5 (Option)
- Photons and Matter Waves
- More About Matter Waves
- All About Atoms
- Conduction of Electricity in Solids
- Nuclear Physics
- Energy from the Nucleus
- Quarks, Leptons, and the Big Bang

Most of these chapters will be followed closely.