Syllabus **PHYSICS 008** **Fall 2008**

Week	Readings(Book=Purcell);Notes=Boccio	Laboratory
01(09/01)	Chapter 1 Electrostatics(34) Notes on Web	Vector Calculus Workshop(no lab)
02(09/08)	Chapter 2 Electric Potential(39) Notes on Web	Gauss's Law Workshop(no lab)
03(09/15)	Chapter 3 Conductors(26) Notes on Web	E-field mapping
04(09/22)	Chapter 4 DC Currents(38) Notes on Web	Dielectrics in capacitors
05(09/29)	Chapter 10.1-10.4 Dielectrics/Dipoles(8) Chapter 8.1, 8.3 (9) AC Circuits Notes on Web	Thevenin DC circuit
06(10/06)	Chapter 8.2,8.4-8.5(10) Chapter 7.9 Self-Inductance Circuit(3) Notes on Web	AC Circuits RC/RL decay/ filter
07(10/13)	Fall Break	NO LAB
08(10/20)	Appendix A (Special Relativity) Notes on Web	RLC resonance
09(10/27)	Chapter 5 Moving Charges(31) Notes on Web	E/M Experiment (vxB)
10(11/03)	Chapter 6 Magnetic Field(38) Notes on Web	Ampere's Law Workshop(no lab)
11(11/10)	Chapter 7 Induction(31) Notes on Web	IxB force on wire & hysteresis
12(11/17)	Chapter 9 Maxwell's Equations(20) Notes on Web	Faraday's law
13(11/24)	Chapter 9 Maxwell's Equations(20) (2 lectures) Notes on Web	Thanksgiving NO LAB
14(12/01)	Geometrical Optics Notes on Web	Thin Lens Optics
15(12/08)	Geometrical Optics(1 lecture) Notes on Web	NO LAB