Physics 121     Midterm Exam #2

Monday, Nov. 5

Please bring:   Scantron (type 882-E ), Calculator, and 2 formula sheets
8.5 x 11 (both sides)

Test will be closed book.  Multiple choice and short answer questions.
Topics Covered Include:

Chapter 21: Capacitors in Series & Parallel.

Motion of charges in B fields. Force on an Electric Current. Magnetic
field induced by a current in a (long) wire. Ampere's Law. Right Hand
Rule #2. Force between two currents.

Chapter 23: Induced EMF, magnetic flux. Faraday’s Law, Lenz’s
Law. Mechanical work and Electric Energy. Applications of Faraday's
Law: Speakers, Generators and Motors.

Chapter 25: Electromagnetic (EM) waves. Speed of light. Frequency
& Wavelength. Doppler Effect.

Not on test: Sections 22-7,22-8, 23-7,23-8,23-9, 23-10,25-4,
25-5

Topics Not Covered: Magnetic Torque, Magnetism in Matter. B
fields inside solenoids, RL Circuits, Transformers, All of Chapter 24,
EM energy storage.