Physics 112  -  Syllabus/Assignment Sheet  -  Winter 2007
MODIFIED DUE TO BAD WEATHER

REQUIRED TEXTS & MATERIALS
Worksheets for Physics 112 Laboratory, 12th ed. (2005)
WebAssign Registration Access Card.

LECTURERS: Prof. Pelz (pelz.2@osu.edu), Prof. Reay (reay@mps.ohio-state.edu),
Prof. Kovchegov (yuri@pacific.mps.ohio-state.edu)

COURSE MANAGER: Dr. M. Rallis - SM1036B, 292-4464, rallis.1@osu.edu
WebAssign ADMINISTRATOR: Dr. Bolland - SM5059, 292-8065 Bolland.1@osu.edu

Course Home Page: http://www.physics.ohio-state.edu/ And click on “Courses” and then on “Physics112"
WebAssign: https://www.webassign.net/osu/student.html

Free tutor service available in SM1011A

All reading, problem, and question assignments listed below refer to the Cutnell & Johnson textbook. Homework
is submitted on-line via WebAssign
See the "Welcome to Students of Physics 112" packet for course policies.

Abbreviations: L = lecture, R = recitation, SAT = Self-Assessment Test (on Cutnell & Johnson website).

WEEK 1 - NO LAB
Jan.  3  R  Course Information Distributed; Ch 4 P69; Ch 6 P78
  4  L1  Electric Charge and Force (Ch. 18 S1-5; SAT 18.1)

HOMEWORK #0 (WebAssign tutorial)  Due Sunday January 7 at 11:30 PM

WEEK 2 -  LAB 1: Electric Force & Electric Charge
Jan. 8  R  Ch. 18 Q3,5,6,8; demonstration problem
  9  L2  Electric Field (Ch 18 S6-8,10,11)

HOMEWORK #1 (Ch 18: P3,10,17,30,55) Due Tuesday, January 9 at 11:30 PM
  10  R  QUIZ 1; group work (see Ch 18 Q10, 11, 13)
  11  L3  Electric Field and Electric Potential (Ch.18 S6-8,10; Ch 19 S1-2)

WEEK 3 -  NO LAB
Jan. 15  Holiday: Martin Luther King Day
16  L4  Electric Potential (Ch. 19 S1-4; SAT 19.1)
17  R  Ch 19 Q1, 6, 15; demonstration problem
18  L5  Capacitors, Batteries, and Current (Ch 19 S4,5,7 page 566; SAT 19.2; Ch 20 S1)
19  Last Day to drop without a "W"

HOMEWORK #2 (Ch18: 34,65; Ch 19: P2,3,4,26,30,49,54,56) Due Friday, January 19 at 11:30 PM

WEEK 4 -  LAB 2: Electric Resistance & Potential
Jan. 22  R  QUIZ 2; group work
23  L6  Current, Resistance, Power (Ch 20 S1-4)
24  R  Ch 19 Q17; Ch 20 Q4, 5; demonstration problem
25  L7  Circuits (Ch 20 S6-9, page 597; SAT 20.1)

HOMEWORK #3 (Ch19: P36,38,39,42; Ch 20: P4,11,23,100) Due Friday, January 26 at 11:30 PM

WEEK 5 -  LAB 3: Circuits & Ohm's Law (A)
Jan. 29  R  QUIZ 3; group work
30  L8  Magnetic Field; Magnetic Force (Ch. 21 S1-3)
31  R  Ch 20 Q13; Ch 21 Q2, 3; demonstration problem
Feb.  1  L9  Magnetic Force and Applications (Ch. 21 S3-5; SAT 21.1)

HOMEWORK #4 (Ch 20: P41,44,48,58,62,63,64; Ch 21: P2,3,66) Due Friday, February 2 at 11:30 PM
WEEK 6 - LAB 4: Circuits & Ohm's Law (B)
Feb.  5  R  MIDTERM (Ch. 18,19,20) in recitation room
  6  L10  Magnetic Torque and Applications (Ch. 21 S6,10)
  7  R  Ch 21 Q5, 7, 8, 9; demonstration problem
  8  L11  Magnetic Fields due to Currents; Magnetic Materials (Ch. 21 S7,9; SAT 21.2)

HOMEWORK #5 (Ch 21: P4,10,14,26,28,29,35,36,38) Due Friday, February 9 at 11:30 PM

WEEK 7 - LAB 5: Deflection of Electrons
Feb.  12  R  QUIZ 4; group work
  13  Lecture – Cancelled due to weather
  14  Recitation - Cancelled due to weather
  15  L12  Electromagnetic Induction; Faraday's Law (Ch. 22 S1-5; SAT 22.1)
Feb.  16 Last day to drop without petition

WEEK 8 – LAB 5: Deflection of Electrons (only for labs cancelled in Week 7 due to weather emergency)
Feb.  19  R  Ch 21 Q13, 17; Ch 22 Q4, 12; P31; demonstration problem
  20  L13  Applications of Faraday's Law (Ch. 22 S6,7,9,10; SAT 22.2)

HOMEWORK #6 (Ch 21: P46,47,52,72; Ch. 22: P16,20,24,64) Due Tuesday, February 20 at 11:30 PM
  21  R  QUIZ 5; group work
  22  L14  Waves, EM Radiation/Light; (Ch. 16 S1,2; Ch 24 S1-3)

WEEK 9 - NO LAB
Feb.  26  R  Ch 22 Q14; Ch 16 Q4, 11; demonstration problem
  27  L15  Light Rays, Reflection, Mirrors (Ch. 25 S1-3; SAT 25.1)

HOMEWORK #7 (Ch 22: P38,40,54,66; Ch 16: P2,6; Ch 24: P12,18;) Due Tuesday, February 27 at 11:30 PM
  28  R  QUIZ 6; group work
Mar.  1  L16  Lenses, Images (Ch. 26 S6-8)

WEEK 10 - LAB 6: Geometrical Optics I
Mar.  5  R  Ch 25 Q2; Ch 26 Q16, 19, demonstration problem
  6  L17  Images, Refraction (Ch. 26 S1,2,8 SAT 26.1)

HOMEWORK #8 (Ch 25 P2,5,32,36; Ch 26 P44,49,56,104) Due Tuesday, March 6 at 11:30 PM
  7  R  QUIZ 7; Ch. 26 Q2, 3, 7, demonstration problem
  8  L18  Refraction (Ch. 26 S1,2)

HOMEWORK #9 (Reduced - Ch 26 P4,10,18,22) Due Friday, March 9 at 11:30 PM

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**FINAL EXAM SCHEDULE**

*Your Final Exam will be held in your recitation room*

12:30 Section:  Final Exam held on MONDAY, March 12, 2007 at 11:30 AM - 1:18 PM
1:30 Section:  Final Exam held on TUESDAY, March 13, 2007 at 1:30 PM - 3:18 PM
2:30 Section:  Final Exam held on WEDNESDAY, March 14, 2007 at 1:30 PM - 3:18 PM

Make NO commitment that conflicts with your scheduled final exam listed above.

See the course manager, Dr. Rallis (office SM 1036B, email: rallis.1@osu.edu), by Friday, Jan. 26th if a conflict exists.