PHYS 161.002 (Call #26988)
Monday and Wednesday: 05:30 PM – 06:45 PM
Regener Hall Room 114

Instructor: Paul R. Schwoebel
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Office hours: After class Mondays in Regener 114 or by appointment

TA: Chenchen Mao
Office: Regener Hall Room 111
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Office hours: Monday and Wednesday 4:00 PM – 5:30 PM

SI: Nguyen Phan
Office: Regener Hall Room 111
E-mail: nphan@unm.edu
Office hours: Monday 11 AM – Noon, Tuesday 2 PM – 3 PM, Thursday 5:00 PM – 6:30 PM Thursday

Text: University Physics, 12th edition by Young and Freeman
We will cover roughly one Chapter per week beginning with Chapter 21; see schedule below.

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

Final grade will be curved. The curve will average in the C+/B- range. Before the curve if you have 97%-100% your grade will be at worst an A+, 94%-96% at worst an A, 90%-93% at worst an A-, 87%-89% at worst a B+, 84%-86% at worst a B, 80%-83% at worst a B-, 77%-79% at worst a C+, 74%-76% at worst a C, 70%-73% at worst a C, 67%-69% at worst a D+, 64%-66% at worst a D, 60%-63% at worst a D-, < 60% = F.

1) 40% Homework: Mastering Physics. Assigned weekly on Monday at 8 AM and due the following Monday by 11 PM. Always use 3 significant figures on numerical answers. Lowest homework score will be dropped from average for the final grade. The numbers of the problems assigned in Mastering Physics correspond to those at the end of the appropriate Chapter in your University Physics textbook. If you bought a new textbook at the bookstore it came with an access code to Mastering Physics. If you were registered for Physics 160 last semester your access will carry over. If you wish to buy access to Mastering Physics separately, you may purchase access with a credit card at www.MasteringPhysics.com. Visit www.MasteringPhysics.com to get started.

Course ID is: SCHWOEBEL161
For your Student ID enter your UNM student ID number (= banner ID number)

Homework solutions will be posted at: http://ereserves.unm.edu/courseindex.asp with password: lobo161

For assistance with Mastering Physics use their online resources or go to: http://panda.unm.edu/Courses/StudentHelp/index.html to see the office hours of our Department’s expert.

2) 20% Quizzes: Unannounced once each week or every other week on Monday or Wednesday at the beginning or end of class. Lowest quiz score will be dropped from average for the final grade. Each quiz will be a question taken from the
Summary Section of the textbook chapter to be covered by lectures that week to encourage reading of the textbook beforehand. Make-up quizzes will only be given if prior arrangements have been approved by the instructor. Graded quizzes will be returned by the next class period to your assigned box in Regener Hall. No extra paper, notes, calculators, or cell phones allowed during quiz.

3) 20% Midterm: Wednesday March 10, 5:30-6:45 PM, Regener 114.
Exam will cover Chapters 21 - 26. The exam will be multiple choice with partial credit for work shown. You may use both sides of a 4” x 5” card as a crib sheet. Graded midterms will be returned to your assigned box in Regener Hall by the end of Spring Break. No extra paper, notes, calculators, or cell phones allowed.

4) 20% Final: Wednesday May 5, 5:30-6:45 PM, Regener 114.
Exam will cover Chapters 27 – 31 and lecture notes on Chapters 17 - 20. The exam will be multiple choice with partial credit for work shown. You may use both sides of a 4” x 5” card as a crib sheet. No extra paper, notes, calculators, or cell phones allowed. Graded finals will be available in the Front Office of the Physics Department (800 Yale Blvd. NE) until Sept 1, 2009.

Problems Session (Optional): PHYS 168.002 (Call # 23662)
Wednesday: 07:00 PM – 07:50 PM, Regener Hall Room 114
Grading (P/F) will be based upon attendance and participation. 5 absences will result in a failing grade. The Problems Session is strongly encouraged. The instructor teaches the class. Students are assigned to groups and work problems from the class text under the supervision of the instructor. Problems are selected to aid in understanding of the lecture material and assigned homework.

Schedule
Jan 20 Chapter 21: Electric Charge
Jan 25 – 27 Chapter 21: Electric Fields
Feb 1 – 3 Chapter 22: Gauss’s Law
Feb 8 – 10 Chapter 23: Electric Potential
Feb 15 – 17 Chapter 24: Capacitance and Dielectrics
Feb 22 – 24 Chapter 25: Current and Resistance
Mar 1 – 3 Chapter 26: Direct Current Circuits
Mar 8 – 10 Review and Midterm Exam
Mar 8 Review. Mar 10 Midterm Exam; Ch. 21 - 26
Mar 15 – 19 Spring Break
Mar 22 – 24 Chapter 27: Magnetic Fields and Forces
Mar 29 – 31 Chapter 28: Magnetic Sources
Apr 5 – 7 Chapter 29: Electromagnetic Induction
Apr 12 – 14 Chapter 30: Inductance
Apr 19 – 21 Chapter 17: Thermodynamics I
Apr 26 – 28 Topics from Ch. 18 – 20: Thermodynamics II
May 3 – 5 May 3: Special Lecture & Exam Review
May 5: Final Exam
5:30 PM – 6:45 PM Regener Hall Room 114
Ch. 27 – 30, Ch. 17, and Topics from Ch. 18 – 20.