

GENERAL PHYSICS I

PHYS 160.002 (Call #16259)

Tuesday and Thursday: 05:00 PM – 06:15 PM
Regener Hall Room 103.

Instructor: Paul R. Schwoebel

Office: Physics and Astronomy Building, Room 122.
Phone: 277-2616
E-mail: Schwoebel@chtm.unm.edu
Office hours: After class Tuesdays and by appointment

TA/Sl: Yi Wang

Office: Regener Hall, Room 111
E-mail: yw2465@unm.edu
Office hours: Wednesday 11: AM – 2:00 PM; Friday 3:45 PM – 6:45 PM

Text: *University Physics, 13th edition* by Young and Freeman

We will cover roughly one chapter per week beginning with Chapter 1 and going through Chapter 14 (skipping Chapter 11). See schedule below.

Grading: 30% Homework, 30% Quizzes, 20% Midterm, 20% Final.

Final class 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) 30% Homework: Mastering Physics. Assigned weekly on Tuesday at 8 AM and due the following Tuesday by 11 PM. If you bought a new book at the bookstore, it came with an access code to MasteringPhysics. If you wish to buy access to MasteringPhysics separately, you may purchase access with a credit card at www.MasteringPhysics.com. Visit www.MasteringPhysics.com to get started.

Course ID is: PHYS160002

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: lobo160

For assistance with Mastering Physics use their online resources or go to:
<http://panda.unm.edu/Courses/StudentHelp/index.html> .

- 2) 30% Quizzes: Unannounced once each week or every other week during class on Tuesday or Thursday. 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 made with 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 quizzes.
- 3) 20% Midterm: Tuesday Oct 11, 5:00 - 6:15 PM, Regener 103.
Multiple choice with partial credit for work shown. You may bring a 4"x6" card crib sheet and use both sides. Graded midterms will be returned to your assigned box in Regener Hall. No calculators or cell phones allowed.

4) 20% Final: Thursday December 8, 5:30 - 6:45 PM, Regener 103.

Multiple choice with partial credit for work shown. You may bring a 4"x6" crib sheet and use both sides. Graded finals will be available in the Front Office of the Physics Department (1919 Lomas Blvd. NE) until January 20, 2012

Problems Session (Optional): PHYS 167.002 (Call # 16289)

Thursday: 06:30 PM – 07:20 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 under the supervision of the instructor. Problems are selected to aid in understanding the lecture material and assigned homework.

Schedule

Aug 23 – 25	Chapter 1: <i>Units, Physical Quantities, and Vectors</i>
Aug 30 – Sept 1	Chapter 2: <i>Motion Along a Straight Line</i>
Sept 6 – 8	Chapter 3: <i>Motion in Two or Three Dimensions</i>
Sept 13 – 15	Chapter 4: <i>Newton's Laws of Motion</i>
Sept 20 – 22	Chapter 5: <i>Applying Newton's Laws</i>
Sept 27 – 29	Chapter 6: <i>Work and Kinetic Energy</i>
Oct 4 – 6	Chapter 7: <i>Potential Energy and Energy Conservation</i>
Oct 11	Oct 11: Midterm Exam: Chapters 1 - 7 5:00 PM – 6:15 PM Regener Hall Room 103
Oct 18 – 20	Chapter 8: <i>Momentum, Impulse, and Collisions</i>
Oct 25 – 27	Chapter 9: <i>Rotation of Rigid Bodies</i>
Nov 1 – 3	Chapter 10: <i>Dynamics of Rotation Motion</i>
Nov 8 – 10	Chapter 12: <i>Fluid Mechanics</i>
Nov 15 – 17	Chapter 13: <i>Gravitation</i>
Nov 22	Chapter 14: <i>Periodic Motion</i>
Nov 29 – Dec 1	Chapter 14: <i>Periodic Motion cont.</i>
Dec 6 – 8	Review and Final Exam Dec 6: Complete material through Ch. 14 and Final Exam Review Dec 8: Final Exam: Chapters 8 – 14, less Chapter 11. 5:00 PM – 6:15 PM Regener Hall Room 103