

Phys 013: GENERAL PHYSICS
SYLLABUS
Summer 2007

CRN# 50274 – PHYS 013 Credit Hours: 3.0
May 18th to Jun 30th 2007
MWF 9-12, TR 10:40-12, ROOM 207

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Website: <http://silvinagatica.com/howard/phys013.html>

Text: Halliday Resnick, and Walker. Fundamentals of Physics. 7th edition, vol 1. John Wiley & Sons. New York. 2004. Supplemental material may be added later.

Course Description: Calculus-based Lecture-recitation course that deals with mechanics and thermal physics.

Pre-Requisites: knowledge of algebra, calculus, geometry and trigonometry. MATH-156 and -157.

Attendance: Attendance is not mandatory but highly recommended. It is the responsibility of students to find out about announcements that were given in class.

Homework: There will be homework due on MONDAYS at the beginning of the class, starting May 28th. Late homework will not be accepted. Homeworks will be posted in class and in the website.

Exams: There will be three tests on June 4th, June 13th and June 22th, 9 to 11 AM and a **Final Exam on Friday June 29th 9AM to 12 noon**. Make-up for exams will be given to those students who can't take the exam at the actual time due to health or family problems AND bring a written justified excuse.

Grades: Homeworks 20%, Tests 15% each, Final 35%.
Unjustified missed exams and homework assignments count as zero points.

Academic Code: The academic code of conduct is in effect. Please refer to the Howard University Handbook (H-book) for university guidelines. All lectures and recitations may be videotaped and NOT made available to the general public. Also, turn off your cell phones in recitation. It is a distraction to your instructors and your fellow students.

ADA disclaimer: Howard University is committed to providing an educational environment that is accessible to all students. In accordance with this commitment, students in need of accommodations due to a disability should contact the Office of the Dean for Special Student Services for verification and determination of reasonable accommodations as soon as possible after admission to the University, or at the beginning of each academic semester. The Dean of the Office for Special Student Services, Dr. Barbara Williams, may be reached at 202-238-2420.

Course Plan (tentative)

- CLASS 1: Welcome, Orientation, (5/19)
- CLASS 2: 1d kinematics: Chapter 2, (5/21)
- CLASS 3: Chapter 3 & Chapter 4, Vectors and Projectiles (5/23)
- CLASS 4: Chapter 5 and 6, Forces (5/25)
- CLASS 5: Chapter 7, Energy (5/30)
- CLASS 6: Chapters 8 and 9 Energy and Linear Momentum (6/1)
- CLASS 7: Chapter 9 Linear Momentum, **TEST 1** (6/4)
- CLASS 8: Chapters 10 and 11, Rotations and Angular Momentum (6/6)
- CLASS 9: Chapters 12 and 13, Equilibrium, Gravity (6/8)
- CLASS 10: Chapters 14 (Fluids) (6/11)
- CLASS 11: Chapters 14 (Fluids) **TEST 2** (6/13)
- CLASS 12: Chapters 15, Oscillations (6/15)
- CLASS 13: Chapters 16 and 17, Waves(6/18)
- CLASS 14: Chapters 18, Thermodynamics (6/20)
- CLASS 15: Chapters 18 **TEST 3**(6/22)
- CLASS 16: Chapter 19, Kinetic Theory(6/25)
- CLASS 17: Entropy and Second Law (6/27)
- CLASS 18 (6/29) **FINAL EXAM**