

Phys 013: GENERAL PHYSICS  
SYLLABUS  
Spring 2008

CRN# 10996(7) – PHYS 013 Credit Hours: 3.0  
January 9 – May 7 2008

Instructor: Dr. Silvina Gatica    Office: Thierkiel 101  
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**Website:** <http://silvinagatica.com/howard/phys013.html>

Lectures:            MWF 1:10-2PM, Room Thierkiel 300  
Recitations:        10996(Section 1) T 1:10-3PM, Thierkiel 300  
                          10997 (Section 2) R 1:10-3PM, Thierkiel 300

**Text:** Halliday, Resnick, and Walker. Fundamentals of Physics. 8th edition, vol 1. John Wiley & Sons. New York.

**Course Description:** Calculus-based Lecture-recitation course that deals with mechanics, fluids, waves and thermodynamics.

**Pre-Requisites:** knowledge of algebra, calculus, geometry and trigonometry.

**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 Jan. 21. Late homework will not be accepted. Homeworks will be posted in class and in the website every Monday. Homework due on holidays will be accepted at the beginning of the next lecture.

**Exams:** There will be two Midterms and a **Final Exam**. Make-up for exams will not be given. **Only in exceptional cases** a make up exam or excused exam will be considered. An acceptable written justified excuse will be requested. Tentative dates for exams:  
Midterm 1: February 12,14 (during recitation). Midterm 2: March 11,13 (during recitation). Final: Friday, May 2 12:00 noon – 2:00 p.m. (room Thierkiel 300)

**Grades:** Homeworks 20%, Recitations 10%, Midterms 20% each, Final 30%.  
Unjustified missed exams and homework assignments count as zero points.  
The grade in recitations will be based on quizzes, attendance and work in class.

**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**

WEEK 1:	Welcome, Orientation, Intro	Jan 9	
WEEK 2:	Chapter 2, 1d kinematics:	Jan 14	
WEEK 3:	Chapter 3 and 4, Kinematics 2D, 3D	Jan 21	Holiday MLK birthday
WEEK 4:	Chapter 5 and 6, Forces	Jan 28	
WEEK 5:	Chapter 7, Energy	Feb 4	
WEEK 6:	Chapters 8 and 9 Energy and Linear Momentum	Feb 11	<b><u>MIDTERM 1</u></b>
WEEK 7:	Chapter 9 Linear Momentum	Feb 18	Holiday Presidents' day
WEEK 8:	Chapters 10 and 11, Rotations and Angular Momentum	Feb 25	
WEEK 9:	Chapters 12 and 13, Equilibrium, Gravity	Mar 3	
WEEK 10:	Chapters 14 Fluids and Special Topics	Mar 10	<b><u>MIDTERM 2</u></b>
WEEK 11:		Mar 17	Spring Break
WEEK 12:	Chapters 14, Fluids	Mar 24	
WEEK 13:	Chapter 15, Oscillations	Mar 31	
WEEK 14:	Chapters 16 and 17, Waves	Apr 7	Last day to withdraw
WEEK 15:	Chapters 18,19 Thermodynamics and Kinetic Theory	Apr 14	
WEEK 16:	Chapter 20, Entropy and Second Law	Apr 21	

May 2<sup>nd</sup> 12-2PM: **FINAL EXAM**