

PHYS 120: Physics I

**Fall 2014**

Professor: Dr. Steeves

Office: Elliott 116

Office Hours: Wednesdays & Thursdays 9:30-11:00 AM or by appointment

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**Abstract**

Particle dynamics and curvilinear motion; force and momentum; rotation and static equilibrium; kinetic and potential energy; special relativity.

**Text:** University Physics, 13th edition, Young and Freedman (used editions are ok, but you still need the mastering physics code)

**Assignments:**

You need access to the [www.masteringphysics.com](http://www.masteringphysics.com) website to complete the weekly assignments.

The course-ID you need to access the assignments is: MPSTEEVES80507

**Labs:** All lab sections are held in the Elliott 136. Labs start next week on Monday September 8.

**Marking Scheme**

	<b>A</b>	<b>B</b>	
-Assignments	10%	10%	
-Labs	20%	20%	Labs must be passed to pass course
-Midterm exams	25%	15%	2x50 min exams
-Final exam	45%	55%	3 hour exam

The scheme used (**A** or **B**) is the one that gives you the highest mark

**Calculators:** On all examinations the only acceptable calculator is the Sharp EL-510RNB which can be purchased from the bookstore.

## **Topics**

Introduction

Vectors 1.7-1.10

Motion Along a Straight Line 2.1-2.6

Motion in Two and Three Dimensions 3.1-3.5

Newton's Laws of Motion 4.1-4.6

Applying Newton's Laws 5.1-5.4

### **MIDTERM 1 - OCT 3, 2014**

Work and Kinetic Energy 6.1-6.4

Potential Energy and Conservation 7.1-7.5

Momentum, Impulse and Collisions 8.1-8.6

Relativity 37.1-37.9

### **MIDTERM 2 - Oct 31, 2014**

Rotation of Rigid Bodies 9.1-9.6

Torque and Static Equilibrium 10.1, 11.1-11.3

### **FINAL - To Be Determined**