


PHY 121 - University Physics I: Mechanics FALL 2013 Instructor: Igor A. Shovkovy	Days: Monday, Wednesday, Friday
	Time: 9:00 a.m. – 9:50 a.m.
	Location: Santa Catalina 355 (SANCA 355)

Blackboard  MasteringPhysics	Office: Wanner Hall 340L (Polytechnic campus) Office telephone number: 480-727-1953 E-mail address: Igor.Shovkovy@asu.edu Office hours: Mon, Wed 10:30 a.m. – 11:30 a.m., and by appointment.
---	--

Course description: This course is about the fundamental laws of physics that focuses on mechanics. Topics to be covered in the course include kinematics and dynamics of linear motion and rotations, conservation laws (energy, momentum and angular momentum), universal gravitation and various applications of mechanics.

Prerequisites: MAT-265 (Calculus for Engineers I), MAT-270 (Calculus with Analytic Geometry I), or MAT 290 (Calculus I). Students will need to be able to apply algebra, trigonometry, as well as **differential and integral calculus** to solve physics problems.

Textbook: *University Physics (13th edition)* by **H. D. Young and R. A. Freedman**

You may use either the expanded edition or Volume 1 only. Homework reading assignments are keyed to this textbook. At the bookstore, the textbook should come prepackaged with a [Mastering Physics](#) access kit. [Mastering Physics](#) is **required** from the very beginning of the course. If you buy a used textbook, then you must buy Mastering Physics separately at the bookstore or online at the [Mastering Physics web site](#).

General policy: Class attendance is required. An extra credit (up to a maximum of 2%) may be earned for the attendance. Students are responsible for all material presented in class, all homework, and for all changes to the schedule or plans announced in class. Minimal preparation for lecture is to do the reading assignment for that day. Reading assignments for each class is given in the [SCHEDULE of Lectures, Exams, and Homework assignments](#) on the Blackboard course web site.

Electronic devices. The use of cell phones, pagers, personal digital assistants (PDAs), iPods, iPads, laptops, smartphones and other similar electronic devices is **not** permitted during lectures and exams.

Grading policy:

Homework	35%
Recitation	15%
Midterm exams (10%+10%+10%)	30%
Final exam	20%
TOTAL	100%

The grades will be determined as follows:

A (90%-100%), **B** (78%-89.99%), **C** (66%-77.99%), **D** (54%-65.99%), **E** (less than 54%)

Recitations. Attendance of recitations is required. During the recitation sessions you will be able to ask questions and to develop critical problem solving skills. The recitation instructor will

determine your recitation score based on classroom participation and short quizzes given during the semester.

Homework. Homework is one of the most important components in this course. The main purpose of homework assignments is to help you to **practically** learn the material and build a solid understanding of physics concepts. Solving physics problems effectively is a skill that you must develop by the end of the course. Lectures will cover the key concepts, but homework will help you to learn them. Reading the textbook is essential for deeper understanding of the main concepts and problem solving techniques used. In order to do well in this course, it is necessary to do all homework and reading assignments.

Your homework assignment are to be completed using [Mastering Physics](#) (MP). (For tips using Mastering Physics see the notes in the [SCHEDULE](#) file on the Blackboard course web site.) You will have 12 Mastering Physics homework assignments. You can find these assignments only at Mastering Physics (masteringphysics.com). The due dates for all Mastering Physics assignments will be posted on your Mastering Physics assignment list.

Midterm tests and final exams. There will be three **midterm tests** on the dates shown in the tentative schedule (see also the [SCHEDULE of Lectures, Exams, and Homework assignments](#) on the Blackboard course web site) and a **comprehensive final exam** on a date set by the University. For the actual date of the final exam see the University [final exam schedule](#). No changes may be made in the final exam schedule without prior approval of the Dean of the college. Textbooks and notes will **not** be permitted during the exams. No makeup exams will be allowed.

Tentative schedule

Dates	
August 23	First class
September 2	Labor Day Holiday Observed - University Closed
September 27	Test #1
October 14	Fall Break - No classes
November 4	Test #2
November 11	Veteran's Day Observed - University Closed
November 29	Thanksgiving Observed - University Closed
December 4	Test #3
December 6	Last class
December 11	FINAL EXAM (7:30 am - 9:20 am, see https://students.asu.edu/final-exam-schedule)

Selected course materials, handouts, and grades can be obtained from [myASUcourses](#).

The course name at [myASUcourses](#) is **PHY 121: Univ Physics I: Mechanics (2013 Fall)**.

The identification code for our class at [MasteringPhysics](#) is **MPSHOVKOVY2013FALL**

For student rights and responsibilities see the ASU web page: <http://campus.asu.edu/downtown/rights-and-responsibilities>

ADA policy: *ASU provides equal opportunity to qualified employees and students, and to members of the general public who have a disability and provides reasonable accommodation as appropriate in employment, the application for employment, services, programs, and activities. Individuals with a disability are those who have a physical or mental impairment that substantially limits one or more major life activity, have a record of such impairment, or are regarded as having such impairment. ADA coordinator must be contacted for assistance in all matters pertaining to compliance with this policy. The Disability Resource Center contact numbers are 480-965-1234 (Voice), 480-965-9000 (TTY).*

Last modified August 23, 2013