


PHY 121 - University Physics I: Mechanics SPRING 2012 Instructor: Igor A. Shovkovy	Days: Monday, Wednesday, Friday
	Time: 10:45 a.m. – 11:35 a.m.
RECITATION:	Location: Santan Hall 135 (SANTN 135)
	Day: Wednesday
	Time: 9:40 a.m. – 10:30 a.m.
	Location: Santan Hall 135 (SANTN 135) Picacho Hall 246 (PICHO246)

Blackboard  MasteringPhysics	Office: Wanner Hall 340J (Polytechnic campus)
	Office telephone number: 480-727-1953
	E-mail address: Igor.Shovkovy@asu.edu
	Office hours: Mon, Wed 8:30 a.m. – 9:30 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, and other similar electronic devices is **not** permitted during lectures and exams.

Grading policy:

Homework	30%
Recitation	10%
Midterm & Final exams	60%
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 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. There is no way to do well in this course if you do not give the homework and reading assignments the effort they require.

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 per semester. You can only find the Mastering Physics problems at [masteringphysics.com](#). The due dates for all Mastering Physics assignments will be posted on your Mastering Physics assignment list.

Midterm and final exams. There will be four **midterm exams** 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 (tentative date is April 30, 2012). 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. The **total score for the exams** will be calculated using four best exam scores (at 15% each). It can be either (i) four mid-term exam scores or (ii) three best mid-term exam scores and the final exam score.

Tentative schedule

Dates	
January 6	First class
January 16	Martin Luther King Jr. Holiday – University closed
February 10	Test #1
February 29	Test #2
March 28	Test #3
March 19-23	Spring Break
April 18	Test #4
April 23	Last class
FINAL EXAM:	Check the ASU final exam schedule for the date and time

Selected course materials, handouts, and grades can be obtained from [mvASUcourses](#). The course name at [myASUcourses](#) is **PHY 121: Univ Physics I: Mechanics (2012 Spring)**.

The identification code for our class at [MasteringPhysics](#) is **MPSHOVKOVY2012SPRING**

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 January 5, 2012