PHY 121 - University Physics I: Mechanics  
SPRING 2010  
Instructor: Igor A. Shovkovy

Days: Monday, Wednesday, Friday
Time: 10:45 a.m. – 11:35 a.m.
Location: Health Sciences Center 1349  
(Poly – HSC1349)

RECITATION:
Day: Wednesday
Time: 12:55 p.m. – 1:45 p.m.
Location: Peralta Hall 313  
(Poly – PRLTA313)

Blackboard  
My office is Wanner Hall 340J (Polytechnic campus)  
My office telephone number is 480-727-1953  
My e-mail address is Igor.Shovkovy@asu.edu

MasteringPhysics  
Office hours: Wed 9:00 – 10:00 a.m., Fri 1:00 – 2:00 p.m., and by appointment.

Course description: This course is about the fundamental laws of physics that focuses on mechanics. Key topics to be covered in the course are kinematics (the description of motion) and dynamics (the relation of motion to force and mass), Newton's laws, work, energy, momentum, conservation laws.

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, and elementary differential and integral calculus to solve physics problems.


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 packaged with a Mastering Physics access kit. Mastering Physics is required. 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 3%) 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, laptops, and other similar electronic devices is not permitted during lectures, recitations, exams and quizzes.

Grading policy:

<table>
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<tr>
<th>Assignment</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>30%</td>
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<tr>
<td>Midterm tests</td>
<td>50%</td>
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<tr>
<td>Final exam</td>
<td>20%</td>
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<tr>
<td>TOTAL</td>
<td>100%</td>
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The grades will be determined as follows:  
A (88-100 %),  B (75-87.9 %),  C (62-74.9 %),  D (50-61.9 %),  E (<50 %)
Recitations. Attendance at the recitations is mandatory. During the recitation sessions you will be able to ask questions and to develop critical problem solving skills. Also, I will give tips on problem solving and discuss physics issues brought up by the lectures and the homework assignments.

Homework. Homework is one of the most important components in this course. This is because doing homework is the only way to really learn the material and build a good intuition for physics. Solving physics problems effectively is a skill that students must develop. The only known way to achieve this is by practicing. The lectures will only cover the key concepts. The text will elaborate on these concepts and provide further explanation of their meaning and on how one uses them to solve problems. There is no way to do well in this course if you do not give the homework 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 may expect approximately 12 Mastering Physics HW 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 exams. There will be four midterm tests on the dates shown below in the tentative schedule (see also the SCHEDULE of Lectures, Exams, and Homework assignments on the Blackboard course web site). Textbooks and notes will not be permitted during the exams.

Final Exam. The date and time of the comprehensive final examination is scheduled by the University during the final exam week (May 6 - 12, 2010). For details see the final exam schedule. No changes may be made in this schedule without prior approval of the Dean of the college. Textbooks and notes will not be permitted during the final exam.

Tentative schedule

The exact schedule for lectures and tests will depend on how long it takes to cover the material. The following is my best guess.

Dates

<table>
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<tr>
<th>Dates</th>
<th>Events</th>
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<tbody>
<tr>
<td>January 20</td>
<td>First class</td>
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<tr>
<td>February 12</td>
<td>Test #1</td>
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<td>March 10</td>
<td>Test #2</td>
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<td>March 14-21</td>
<td>Spring Break</td>
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<td>April 5</td>
<td>Test #3</td>
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<td>April 28</td>
<td>Test #4</td>
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<tr>
<td>May 3</td>
<td>Last class</td>
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**FINAL EXAM:** Check the final exam schedule for the date and time

Selected course materials, handouts, and grades can be obtained from myASUcourses. The course name at myASUcourses is PHY 121: Univ Physics I: Mechanics (2010 Spring).

The identification code for our class at MasteringPhysics is MPSHOVKOVY50830.

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 20, 2010