Syllabus for PHY 201:	General Physics I	Summer 2014	6:00-7:15 TR Sci Room 277	1
Dr. Howard Richards	304-696-6466		Howard.Richards@Marshall.e	edu

Instructor:

 Dr. Howard L. Richards
 E-mail: Howard.Richards@Marshall.edu

 Office: Science 105
 Phone: (304) 696-6466

 Instructor's Schedule (including office hours*):

	Monday	Tuesday	Wednesday	Thursday	Friday
12	PS 109		PS 109		PS 109
1					
2	Office Hours		Office Hours		Office Hours
3		Office Hours		Office Hours	
4		PHY 202		PHY 202	
5		PH1 202		PH1 202	PHY 204
6		PHY 201		PHY 201	FHT 204

Textbook:

College Physics, *9th ed.*, by Francis W. Sears, Mark W. Zemansky, and Hugh D. Young, Pearson, 2012.

Recommended: *College Physics*. OpenStax College. 21 June 2012. Download for free at http://cnx.org/content/col11406/latest/.

Catalog Description:

201-203 General Physics. 3 hrs. I, II, S.

A course in general physics for all science majors with the exception of physics and engineering majors. 3 lec. (PR: MTH 127 or 130 and MTH 122 or 132; CR: PHY 202 and 204 for 201 and 203, respectively; 201 must precede 203)

General Description:

This course is the first half of a one-year introductory course in physics that uses algebra and trigonometry but not calculus. It is designed for students having their main interest in Biology, (Pre)Medicine, Architecture, Technology, or the Earth and Environmental Sciences. At the end of this course the student should be able to apply sound reasoning skills and the principles and formulae of physics to solve simple problems in mechanics, including vibrations, waves and sound and problems involving kinetic theory and thermodynamics. Priority will be given to the earlier chapters, which are essential to any understanding of later material.

Grades:

Students making a score of less than 1/2 the class average on the final exam will fail the class. For example, if the class average is 80, you must make at least a 40 on the final to pass.

^{*} Office hours are subject to change, with notice given in class and on the web page. The instructor will make a serious effort to be in his office during office hours, but circumstances will sometimes require him to be elsewhere. Students are strongly urged to make appointments in advance when possible.

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Course Learning Objectives:

Students will	Practiced by	Assessed by
Identify the equations and principles needed to solve problems in mechanics and thermal physics.		
Use graphs, sketches,and/or diagrams		
as aids in conceptualizing physics		
problems and explaining their answers.	Classroom	
Formulate and clearly communicate	Discussions,	Exams
valid strategies for solving word	Homework	
problems in mechanics and thermal		
physics.		
Use basic algebra and trigonometry to		
calculate physical quantities.		
Apply to physics problems the basic		
operations of vector algebra.		

Exams:

Each hour exam will cover the material presented since the last hour exam, but note that mastery of earlier concepts and methods may be necessary to complete later problems. The final exam is comprehensive.

The contribution of the exams to the course grade is calculated as follows. All hours exams count as one exam unit each, but the final exam counts as 2 exam units.

Final Exam is Required:

From the *Undergraduate Catalog*: "Students are required to take all regular examinations. If a student attends a course throughout the semester and is absent from the final examination without permission, the instructor counts the examination as zero and reports the final grade of *F*. If the absence is the result of illness or some other valid reason beyond a student's control, the instructor reports a grade of *I*. In all cases, the student must verify the reason for the absence."

Homework:

1. Go to http://saplinglearning.com and click on "US Higher Ed" at the top right.

2a. If you already have a Sapling Learning account, log in and skip to step 3.

2b. If you have a Facebook account, you can use it to quickly create a Sapling Learning account. Click "Create an Account", then "Create my account through Facebook". You will be prompted to log into Facebook if you aren't already. Choose a username and password, then click "Link Account". You can then skip to step 3.

2c. Otherwise, click "Create an Account". Supply the requested information and click "Create My Account". Check your email (and spam filter) for a message from Sapling Learning and click on the link provided in that email.

3. Find your course in the list (you may need to expand the subject and term categories) and click the link.

Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments. During sign up or throughout the term, **if you have any technical problems or grading issues, send an email to support@saplinglearning.com explaining the issue**. The Sapling Learning support team is almost always faster and better able to resolve issues than your instructor.

Presentations:

Students must use the problem-solving sheet, which can be found on the MUOnline page for this course, for all presentations, which will show the solution in detail of one problem. The same problem-solving sheet will also be used for some exam problems.

The problem-solving sheet is used for two reasons.

- It will promote good problem-solving habits.
- It will help students earn partial credit for difficult problems.

Problems are from the OpenStax College textbook (http://cnx.org/content/col11406/latest/).

Problem assignments will be given at the end of the first week.

Schedule:

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Fri, Aug 29, 14	Last Day to Add Classes
Mon, Sep 1, 14	Labor Day – University Closed
Tue, Sep 2, 14	"W" Period Begins
Thu, Sep 25, 14	Test 1 (Subject to Change)
Thu, Oct 30, 14	Test 2 (Subject to Change)
Fri, Oct 31, 14	Last Day to Drop an Individual Course
11/24/14 – 11/29/14	Thanksgiving Break
12/1/14 - 12/6/14	Semana de Muertos
12/09/14 06:00 PM	Final Exam

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Academic Dishonesty:

"Academic Dishonesty is something that will not be tolerated as these actions are fundamentally opposed to 'assuring the integrity of the curriculum through the maintenance of rigorous standards and high expectations for student learning and performance' as described in Marshall University's Statement of Philosophy." Cheating and other forms of academic dishonesty will bring serious sanctions, including possible expulsion, as described in the *Undergraduate Catalog*.

Cheating on an exam or quiz will result in being reported to the Dean of Students and, <u>at minimum</u>, either
(a) having all suspect work marked wrong or
(b) having the course grade reduced by one letter grade, whichever is the <u>heavier</u> penalty.

You may work together on homework, but do not just copy someone else's answers. Not only is this dishonest, it will make you more likely to do badly on the next test.

Policy for Students with Disabilities:

Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271, to provide documentation of their disabilities. Following this, the DSS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit http://www.marshall.edu/disabled or contact the Disabled Student Services Office.

Students with Medical Conditions:

In addition to the above, students with medical conditions, temporary or permanent, that may require special attention (for example, epilepsy) or accommodation should inform the instructor as soon as possible.

Your privacy will be respected.

University Policies:

By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to <u>www.marshall.edu/academic-affairs</u> and clicking on "Marshall University Policies." Or, you can access the policies directly by going to <u>http://www.marshall.edu/academic-affairs/?page_id=802</u>.

- Academic Dishonesty
- Excused Absence Policy for Undergraduates
- Computing Services Acceptable Use
- Inclement Weather
- Dead Week
- Students with Disabilities

- Academic Forgiveness
- Academic Probation and Suspension
- Academic Rights and Responsibilities of Students
- Affirmative Action
- Sexual Harassment

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Classroom Behavior:

Disorderly conduct that interferes with the normal classroom atmosphere will not be tolerated. The classroom instructor is the judge of such behavior and may instruct a disorderly student to leave the room with an unexcused absence. More serious misconduct may result in a complaint to the Office of Judicial Affairs. "Official University action will be taken when a student's or student group's behavior violates community standards, interferes either with the University's educational purpose, or with its duty to protect and preserve individual health, welfare, and property. When the behavior is aggravated or presents a continuing danger to the University community, accused students are subject to separation from the institution."

As a rule, **no food or drink** is allowed in the classroom. This is not always rigorously enforced, but certainly **it is never permissible to leave a mess**, whether crumbs or empty bottles, nor to distract the students around you. You are a grown-up, so act like one and be considerate.

Along the same lines, **all cell phones must be turned off or set to vibrate only** before the beginning of class. Any student who takes a call must leave the classroom to do so. Phone calls may not be placed or received during quizzes or tests. No devices may be used to play games or watch videos unrelated to classroom discussions.

You may not use your phone as a calculator during tests, not any other tablet or device capable of sending or receiving text, emails, video, or phone messages. You can get a very good scientific calculator (e.g., Casio *fx-300ES PLUS*) for less than \$20; I recommend choosing one with two-line display (so you can check for typos in your input) and at least 3 memory locations (usually named A, B, C, ...) in which you can store intermediate results to avoid rounding error. Of course, if some other department required you to buy an unnecessarily expensive graphing calculator, you can use that, too.

Please **do ask questions** if you do not understand a concept, derivation, or calculation. Do not be embarrassed to ask; if you have a question, others probably have the same question! Let me know if I am going too fast or too slow. Private chats with other students, on the other hand, must be kept to an absolute minimum during class time; they are very distracting.