

Course Title/Number	PS 110L Sec. 202 [CRN 2243]																																												
Semester/Year	Spring 2014																																												
Days/Time	Tuesday 1:00 – 2:50 p.m.																																												
Location	Science 179																																												
Instructor	Dr. Howard L. Richards																																												
Office	Science 105																																												
Phone	304-696-6466																																												
E-Mail	Howard.Richards@Marshall.edu																																												
Office/Hours	<table><tr><td></td><td>Tuesday</td><td>Wednesday</td><td>Thursday</td></tr><tr><td>8</td><td rowspan="2">PHY 204</td><td></td><td></td></tr><tr><td>9</td><td rowspan="2">PHY 202</td><td></td></tr><tr><td>10</td><td>Office Hours</td><td></td><td rowspan="2">Office Hours</td></tr><tr><td>11</td><td></td><td>Office Hours</td><td></td></tr><tr><td>12</td><td colspan="3">Lunch</td></tr><tr><td>1</td><td rowspan="2">PS 110L</td><td rowspan="2">PHY 202</td><td>Office Hours</td></tr><tr><td>2</td><td>PHY 101L</td></tr><tr><td>3</td><td rowspan="2">Office Hours</td><td rowspan="2">Office Hours</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td rowspan="2">PHY 202</td><td rowspan="2"></td><td></td></tr><tr><td>6</td><td></td></tr></table>					Tuesday	Wednesday	Thursday	8	PHY 204			9	PHY 202		10	Office Hours		Office Hours	11		Office Hours		12	Lunch			1	PS 110L	PHY 202	Office Hours	2	PHY 101L	3	Office Hours	Office Hours		4		5	PHY 202			6	
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University Policies	<p>By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802</p> <p>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</p>																																												

Course Description: From Catalog**General Physical Science Laboratory. 1 hr. II, S.**

A lab course with experiments related to PS 110. (CR: PS 110)

The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.

Students will ...	Practiced by	Assessed by
Work safely with chemicals, including acids and bases, and lab equipment, including Bunsen burners.	Performing experiments under direction of the instructor.	N/A, but a prerequisite for submission of a lab report.
Dispose of used chemicals in a manner safe for humans and the environment.		
Perform chemical experiments and interpret the results, including distinguishing elements, mixtures, and compounds; measuring the pH of a solution; and identifying both the positive and negative ions in an unknown solution.	(1) following along with the demos, examples, and explanations in the pre-lab lecture; (2) working steadily through the lab, so there is time to correct mistakes; (3) the difficulty and expectations for labs increase as students gain experience.	Lab Reports and Exams
Interpret topographic maps.		
Identify the geologic processes that generate specific patterns of strata and inclusions.		
Identify a variety of common minerals and rocks.		

Required Texts, Additional Reading, and Other Materials

1. PS110 Lab Manual
2. Lecture Handouts
3. Calculator (NOT a cellphone!)
4. Goggles

Course Requirements / Due Dates

1. Lab Reports / **Due by Friday 2:00 PM.** Turned in to dropbox outside S178. Reports handed in after Friday will lose one point (out of 10). Reports will not be accepted after the next class meeting.
2. Exam 1 / March 4
3. Exam 2 / May 6

Grading Policy**40% Laboratory Report Average****A = 90+****B = 80-90-****30% Exam 1****C = 70-80-****30% Exam 2****D = 60-70-****Students who fail both exams will fail the class. This is departmental policy.****Attendance Policy**

Students are expected to be on-time and present for all lab meetings. An attendance record will be maintained, with possible entries of Present, Excused, and Absent.

Make-ups are difficult and often impossible to do so don't miss a lab! It may be possible to attend a different lab section if it can be arranged ahead of time. (NOTE: You must DO the lab in order to turn in a report.) Contact instructor if you need to attend another lab. Labs are scheduled: Tues 10-12, 1-3 & 5-7 Wed: 9-11, 11-1 Thurs: 5-7

Course Schedule (Subject to Change)

Date	Activity
January 14, 2014	Lab #1
January 21, 2014	Lab #2
January 28, 2014	Lab #3
February 4, 2014	Lab #4
February 11, 2014	Lab #5
February 18, 2014	Lab #6
February 25, 2014	Review Session
March 4, 2014	Exam 1
March 11, 2014	Lab #7
March 17 – 22	Spring Break
March 25, 2014	Lab #8; Start Lab #9
Friday, March 28, 2014	Last Day to Drop 1 Course
April 1, 2014	Work on Labs #9 & #10
April 8, 2014	Work on Labs #9 & #10
April 15, 2014	Work on Lab #11 & “Campus Rocks”
April 22, 2014	Work on Lab #11 & “Campus Rocks” Due Friday
April 29, 2014	Review Session
Tuesday, May 6, 12:45 PM	Exam 2

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 Disabled Student Services Office at Prichard Hall 11, phone **304-696-2271**.

Students with Medical Conditions:

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

Your privacy will be respected.

For Additional Help:

- If you find yourself struggling, **let the instructor know**. Feel free to drop by during office hours – that's what they are there for!
- It may also be a good idea to study with other students taking the same course, even if they are in a different section.
- Some good material (tutorials, practice questions, etc.) for chemistry can be found at <http://askthenerd.com/chemistryonline/intro.html>.
- For some good online materials on geology, try <http://voyager.cs.bgsu.edu/topo/superGeoTut.html>.
- The Physics Department has a page of tutorial links, including "in house" tutoring at <http://www.marshall.edu/physics/tutoring.asp>.
- There is also a tutoring center in Laidley Hall. See <http://www.marshall.edu/wpmu/uc/tutoring-services/> for details.

Also:

- Read through the lab before coming to class, it will make things MUCH easier!
- Before each lab, check to see that you have this equipment:
 - In cabinet: Bunsen Burner, tt's and rack, graduated cylinder, washbottle.
 - In drawer: tt holder, tt brush, stirring rod, flame tester, pH paper, candle, magnifying lens.
- No food or drink in lab.
- Dress appropriately. No shorts or open-toed shoes.
- **Know and obey the safety rules!**