

Syllabus - Physics 212 Section 1 - Spring 2015

Physics for Science and Engineering II

General Info

Dr. Sumedhe Karunarathne

Email: skarunar@olemiss.edu

Phone: 915-1544

Office Hours: MWF 8.00 – 9.00 A.M. in Lewis 104 and by appointment

Web: <https://sites.google.com/a/go.olemiss.edu/phys-212-sec-1-spring-2015/>

Lecture: MWF 2:00 – 2:50 P.M. in Lewis 101

Textbook: Physics for Scientists and Engineering 9th Edition – Serway and Jewett

Contents

Phys 212 is a calculus-based introduction to electricity and magnetism, light and optics, and modern physics. This is the second part of a two-semester survey of classical physics. This course is designed to for those majoring in the physics, chemistry, mathematics, and engineering. We will cover Chapter 23 –39. Some chapters from light and optics section will be omitted.

The goals of this course include, but are not limited to, understanding the basic concepts and principles of physics, improving problem solving skills, and improving analytical reasoning for real world situations. To get full advantage of the course, students should refer the required textbook frequently and complete the homework problems honestly.

Grading

Homework: 15%

3 Midterm tests – 20% each

Final Exam 25%

Homework: will be assigned each day and is usually due at the beginning of the next class. There will be two kinds of homework:

- (1) Written homework: Usually 1-2 problems will be assigned. You should do this in black or blue ink only. Please staple the pages together. Remember to include your name, date, and homework number on the first page. I will grade 1-2 of the assigned problems and you will receive the full marks automatically for all the problems I do not grade. When answering problems, I am expecting you to explain the physics concepts that you use in English. Just getting the correct final answer is not enough to get full credit for the problem; you must also explain what you were doing and why. (In fact I am not as interested in the final answer as seeing how you get there.)
- (2) Online Homework: Some of the homework will be assigned through WebAssign (www.webassign.com). Instructions on how to enroll for WebAssign can be found at the end of this document. Unlike written homework, all these problems will be graded.

Late homework will not be accepted. But you can drop up to 4 homework sets. This should cover all the late or forgotten homework, brief absences, etc.

Tests: There will be 3 midterm tests. Dates will be announced at least two weeks before. I will not drop any test grades.

The final exam is Monday May 4th at 4.00 P.M.

I will use the +- grading scale found at <http://www.olemiss.edu/info/grading.html>

Grading	Marks	GPA
A	>= 92	4.0
A-	> =90	3.7
B+	>= 88	3.3
B	> =82	3.0
B-	> =80	2.7
C+	> =78	2.3
C	> =72	2.0
C-	> =70	1.7
D	> =60	1.0
F	< 60	0

Policies

Attendance: You are expected to attend each lecture. If you are absent for a test, you will receive a zero (and no test grades will be dropped). If you have pre-planned university sponsored event on a test day, you should let me know early as possible and provide proof. If you must miss a test due to an emergency, you must submit valid document/s with the request for a retake.

Academic Integrity: Don't cheat. It is a university policy. Read about this here <https://secure4.olemiss.edu/umpolicyopen/ShowDetails.jsp?istatPara=1&policyObjidPara=10817696>

and here.

https://secure4.olemiss.edu/umpolicyopen/GetPdfActive?pol=10817696&ver=active&file=10817696_active_20120910.pdf&cod=ACA.AR.600.001

Consequences for cheating are serious and if you were found cheating, you will be reported the University for proper action.

Group work: Group work is encouraged for preparing for homework, tests, and the final exam.

Graded documents: Please keep all the graded homework assignments and tests. This is a UM policy.

Reading: You are advised to buy the assigned text book. It is very difficult to cover everything in the chapters in the given time frame during the lectures. So make sure you READ THE BOOK.

Registration Instructions for WebAssign - Physics 211 Section 1

Fall 2014

Instructions for self-enrollment:

- (1) Go to <http://www.webassign.com>
- (2) On the top-right of the page, click "ENTER CLASS KEY"
- (3) Enter the class key for this section "olemiss 4865 9147"
- (4) Make sure to enter your name and student ID correctly.