

Physics 212: Physics for Science & Engineering II

Course Information

Website: Blackboard (blackboard.olemiss.edu)

Class times and location: Tu/Th 8-9:15 am, Lewis 101

Text: Chabay & Sherwood, Matter and Interactions, Volume II: Electric & Magnetic Interactions, 4th Edition, Wiley 2015.

Additional material: Web Assign, Top Hat (tophat.com, join code: 733254)

Instructor: Michelle Tseng

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Office hours: see tutoring room schedule

Course Description

A calculus-based introduction to electricity, magnetism, electromagnetic waves, and related topics, including geometrical and physical optics. Second part of a two-semester survey of classical physics.

Class Policies

Grading

The course grade will be determined using the following weights:

Top Hat 10%

Homework 10%

Quizzes 10%

Midterm 1 15%

Midterm 2 15%

Midterm 3 15%

Final 25%

Attendance

The university requires all students to have a verified attendance at least once during the first two weeks of the semester for each course or else they are automatically dropped from the class.

Attendance is not part of the class grade, but good attendance may be considered a reason for bumping

up a student's final class grade for cases where a student is between two grades.

Students are expected to attend classes in order to hear lectures, take quizzes, turn in homework, and participate in class activities. Students who miss a class where homework is to be turned in or where a quiz or exam was to be taken will receive zero credit for the homework or quiz/exam except in extenuating circumstances. Exceptions should be requested ahead of time and will be only be considered on a case-by-case basis.

Top Hat:

There will be in-class questions during lecture that students must answer using their smartphone, tablet, or laptop by accessing the Top Hat system. Please sign up at tophat.com (join code: 73325) and be sure to bring your smartphone, tablet, or laptop to each class in order to participate. If you do bring a laptop computer, I request that you sit near the back of the classroom in order to minimize distractions to other students. If you have any difficulties with the Top Hat system, please contact Top Hat technical support at support@tophat.com or 888-663-5491.

WebAssign:

We will use WebAssign to turn in online homework questions. WebAssign can be accessed through blackboard.olemiss.edu. There is a 25% penalty for each answer submission on any particular problem beyond the first three. To avoid this penalty, students should work each problem carefully on paper before submitting solutions. If you have any difficulties with WebAssign, please contact their support team at 800-354-9706.

Homework/quiz/exam format guidelines:

- Work must be easy to read and follow or else it may not receive credit.
- Write down which equations/principles you are using (do not just write down numbers and calculations), and show all your work/reasoning or else it may not receive credit.
- Include units where appropriate and a reasonable number of significant digits.
- Write neatly and legibly using a pen or pencil color that is easy to read.
- Use 8.5 x 11 inch white paper with no torn or tattered edges to facilitate handling of homework.
- Be sure to write your name on each page, and for homework, staple all pages together in order.
- Each student must understand the homework assignment and write up their own solutions. Copying of other students' solutions is considered plagiarism and will be punished as appropriate.
- Points may be deducted if any of these guidelines is not followed.

Homework

Late homework will not be accepted except in extenuating circumstances. Exceptions should be requested ahead of time and will be only be considered on a case-by-case basis. Collaboration with classmates is encouraged, but each student must understand the homework assignment and write up their own solutions. Homework will be a combination of online problems and problems to be turned in on paper. Homework will be due at the beginning of each class, and it will cover the previous class

lecture.

Quizzes

A short quiz will be given at the beginning of each class, covering the material from the previous class lecture. The quizzes will be closed book, and calculators will be allowed.

Exams

There will be 3 midterm exams and 1 final exam. The exams will be closed book except for an equation sheet, and calculators will be allowed. The midterm exams will be scheduled at a time outside of normal class hours. The final exam date and time are set by the University.

Academic Integrity

Students are expected to do their own work and conduct themselves ethically. Any copying of other people's solutions or other academic dishonesty will be taken very seriously, and the offender will face disciplinary measures up to and including expulsion, depending on the severity of the offense. For further information, please refer to the College of Liberal Arts Academic Conduct page: <http://catalog.olemiss.edu/academics/regulations/conduct> and <https://policies.olemiss.edu/ShowDetails.jsp?istatPara=1&policyObjidPara=10817696>

Changes to Syllabus: The syllabus may be adjusted as needed, but any changes will be discussed in class beforehand.