

Physics 211: Physics for Scientists and Engineers I (Summer 2013)

Instructor: Dr. Ahmed M. Hamed
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Lectures: 8:00 am - 9:50 am, M T W TH F, HELD Lewis Hall, Room 101 (Auditorium)
Office Hours: 10:00 am - 11:00 am, T TH and by appointment

Textbooks: “Physics for Scientists and Engineers” 8th Ed. By Serway and Jewett;

Teaching Assistant: TBA

Note:

1. The grades in this course will be determined by your performance on two term exams (25% each), final exam (50%), and bonus problems (5%). The grade ranges are: 90-105 = A; 80-90 = B; 65-80 = C; 50-65 = D. In order to earn the 5% of bonus problems you should solve all the assigned “challenge” problems.
2. If your grade on the final exam is higher than your lowest grade on one of the two term exams during the semester, the grade on the final will replace that one, lowest exam grade, in computing the course grade. The final exam grade **cannot** be used to replace an exam that was missed.
3. May 31st is the last day of refund period, and June 11th is the last day for course withdrawals.
4. **Final exam (comprehensive):** June 25th, Tuesday, 8:00 am-11:00 am **Please note there is no make-up for the final.**

Week/Date	Chapter/Topic
1 May 29	<u>Chapters 1, 2:</u> Dimensional analysis; motion in 1d
1 May 30	<u>Chapter 3:</u> vectors
1 May 31	<u>Chapter 4:</u> motion in 2d
2 June 3	<u>Chapter 5:</u> motion laws
2 June 4	<u>Chapter 6:</u> circular motion
2 June 5	<u>Chapters 7, 8:</u> work; energy, conservation of energy
2 June 6	<u>Exam I</u>
2 June 7	<u>Chapter 9:</u> system of particles, linear momentum
3 June 10	<u>Chapter 10:</u> rigid object, torque
3 June 11	<u>Chapter 11:</u> angular momentum
3 June 12	<u>Chapter 12:</u> static equilibrium,
3 June 13	<u>Chapter 13:</u> gravitation
3 June 14	<u>Chapters 14:</u> fluid dynamics;
4 June 17	<u>Chapters 15, 16:</u> simple harmonic motion, waves

Week/Date	Chapter/Topic
4 June 18	<u>Exam II</u>
4 June 19	<u>Chapters 17, 18:</u> sound, resonance
4 June 20	<u>Chapters 19, 20:</u> temperature; 1 st law of thermodynamics
4 June 21	<u>Chapter 21:</u> kinetic theory of gases;
5 June 24	<u>Chapter 22:</u> entropy; 2 nd law of thermodynamics
5 June 25 th	Final exam (comprehensive), 8:00 am-11:00 am

Do Yourself (and Me) a Favor

Read about the topics before I discuss them in lectures. It is not necessary that you study them carefully, but at least get the “smell of it”. This should make it much easier for you to follow the lectures and that should make them more interesting.

ADA statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Student Disability Services (SDS) at 234 Martindale Center (sds@olemiss.edu) phone: 662-915-7128

Academic Integrity statement:

As an Olemiss student I have abided by the UM academic integrity policy. My words and actions will reflect Academic Integrity. I will not cheat or lie or steal in academic matters. I will promote integrity in the University of Mississippi community.

For more information, refer to

http://www.olemiss.edu/depts/general_library/instruction/resources/plagiarism_resources/reinforcing.html

Disclaimer:

This is a tentative syllabus and a slight adjustment might be made in due course.