

Physics 212: Physics for Scientists and Engineers II (Summer 2013)

Instructor: Dr. Ahmed M. Hamed
Office: 5 Kennon Observatory
Phone: 915-7849
Email: hamed@phy.olemiss.edu
Online: <http://www.phy.olemiss.edu/~hamed>
Lectures: 3:30pm - 5:00pm, M T W TH F, HELD Lewis Hall, Room 101 (Auditorium)
Office Hours: 9:30am - 10:40am, 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. July 1st is the last day of refund period, and July 11th is the last day for course withdrawals.
4. **Final exam (comprehensive):** July 26th, Friday, (time is according to the official final exam schedule announced by the school). **Please note there is no make-up for the final.**

Week/Date	Chapter/Topic
1 June 27	Chapters 23: Electric Fields
1 June 28	Chapters 24: Gauss’s law
2 July 1	Chapters 25: Electric Potential
2 July 2	Chapter 26: Capacitors
2 July 3	Chapters 27: Ohm’s law
2 July 4	INDEPENDENCE DAY
2 July 5	Chapters 28: Kirchhoff’s rules
3 July 8	Chapters 29: Magnetic Fields
3 July 9	Exam I
3 July 10	Chapters 30: Sources of the Magnetic Field
3 July 11	Chapters 31: Faraday’s law
3 July 12	Chapters 32: Inductance
4 July 15	Chapters 33: AC circuits
4 July 16	Chapter 34: EM waves

Week/Date	Chapter/Topic
4 July 17	Exam II
4 July 18	Chapter 35: Ray Optics
4 July 19	Chapter 36: Image formation
4 July 22	Chapter 37: Wave Optics
5 July 23	Chapter 39: Diffraction
5 July 24	Chapter 39: Relativity
5 July 26	Final exam (comprehensive), time: TBA

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.