PHYSICS 1112K: ELECTRICITY AND MAGNETISM, LIGHT AND MODERN PHYSICS
FALL 2018, TR 9:30 - 10:45 am
Sections: 80453, 85253 and 88967
Aderhold Learning Center 323

Course Objectives:
To help students develop (i) a good understanding of fundamental physical principles and (ii) skills to solve real-world physical problems associated with the topics. Lectures will include basic principles/concepts illustrated with examples. **Students are expected to attend lectures**, and spend time reading the textbook and solving problems from the textbook to develop a strong understanding of the physical principles.

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Web page: [http://www.phy-astr.gsu.edu/Sarsour/teaching/phy1112_fall18/](http://www.phy-astr.gsu.edu/Sarsour/teaching/phy1112_fall18/)

Office Hours: Tuesday & Thursday, 11:00 – 12:20 pm, or by appointment.

Text Book: **College Physics: A Strategic Approach**, Volumes 2 (Third Edition) by Randy Knight, Brian Jones and Stuart Field

Grading:
- Laboratory 25%
- Homework 25%
- Tow Hourly Exams 30% (15% each)
- Final Exam 20%


Tentative Exam Schedule (all in class):
- Exam 1: Sep. 20, Thursday
- Exam 2: Oct. 25, Thursday
- Final Exam: Everything! Dec. 6, Thursday (8:00 – 10:30 am)

Make-up and early exams will not be given, no matter what your reason. You must also be sure to arrive on time for all tests. If you arrive after the first person has turned in their test and left the room, you will not be allowed to take the test. Everyone occasionally has a bad day, so the final exam will also count as a makeup exam which will replace your lowest exam grade if it has higher score.

Laboratory: For information about labs, please follow the website at: [http://www.phy-astr.gsu.edu/butler/labs/index.html](http://www.phy-astr.gsu.edu/butler/labs/index.html)
You have to attend at least eight labs to pass the class.

Homework: Homework problems will be assigned each week and graded online using Mastering Physics. You need to register for [MasteringPhysics](http://www.masteringphysics.com/). To do this, you need to know your ACCESS CODE which is included with your textbook or can be obtained online from the publisher. You will also need the course ID, which is MPSARSOUR92008. There will be no amnesty period or any extensions beyond the due date, however, to account for any difficulties or special circumstances that students might face, the first and last homeworks will be considered as bonus.

Attendance: You will learn the most and do best in this class if you attend lecture regularly. It is your choice to attend lecture or not, but if you attend you must be respectful of everyone else in the classroom. Anyone who becomes a distraction during lecture will be asked to leave. If you choose not to attend, you need to be prepared for how your absence may affect your learning and your grade. I may sometimes cover material in lecture that is not in the textbook but will be on a test.
Laptops: Laptop computers are allowed in the classroom during lectures for the express purpose of taking notes. Students are expected to abide by this policy. Checking Facebook, playing games, surfing the internet, and otherwise causing distractions for those sitting behind you will not be tolerated and you will be asked to leave.

Cell phones: Cell phones need to be silenced before class begins and put away during lecture. If I see any cell phones out during tests, I will assume you are cheating and you will earn an F for the course.

Assistance: Questions during lecture are encouraged and appreciated. Please do not hesitate to ask for clarification. My office hours are listed above. I am also available by appointment. I will post class information at my website: http://www.phy-astr.gsu.edu/Sarsour/teaching/phy1112_fall18/

Problems: If you have any problems during this course, please come talk to me and I will do my best to help resolve the problem. Alternatively, you may contact Dr. D. Michael Crenshaw, the chairman of the Physics & Astronomy Department (crenshaw@phy-astr.gsu.edu; 404-413-6033), or the GSU Office of Student Support Services (404-413-1680).

Honor code: It is the responsibility of the students to abide by the GSU academic honesty policy http://www2.gsu.edu/~wwwfhb/sec409.html

Disclaimer: The course syllabus provides a general plan for the course, deviations may be necessary.

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. Please advise the instructor if you have a documented disability that needs to be accommodated.

“Food and drinks are prohibited in class.” Note: there may be reasons why this prohibition would not apply.

How to Succeed in this Course

- Attend lecture. I will highlight the important information in my lectures, and the tests will be weighted more heavily towards material presented in lecture.
- If you miss lecture, get notes from a friend. I cannot hand out my lecture slides because of copyright issues. You may also make an appointment with me to look through the slides in my office if necessary.
- Read ahead of the lectures in the textbook. This will enable you to spend more time listening during lecture and less time writing, so that you will be better able to process the information as I present it. You will also have more time to recognize that you need to ask a question.
- Do not cram. Instead, spread out your studying equally over each week. We will go through the entire textbook, and there is too much information for you if you only cram before tests.
- Print out your homework and work through it on paper before you sit down to submit your answers online.

All class work should be the result of your own effort. Cheating will earn you an F for the entire course.