

PHY 2049 CALCULUS-BASED PHYSICS II 50/1102
SPRING 2008 4 SH TU & TH 10:50 to 12:05, F 12 to 12:50

Instructor: Dr. J. Garner, Room 1532 Sci&Engr Building Email jgarner@unf.edu Ph 620-1947

Office Hours: Mon & Wed 11 to 11:50 and Mon, Tues & Thurs 1 to 1:50

Prerequisites: Calculus-Based Physics I (PHY 2048) and Calculus II

Description: This course is a study of electricity, magnetism, and optics for prospective scientists and engineers. The primary emphasis will be on physics problem-solving. Most of the class time will be lecture but some problem-solving will be done in class with students working in teams and voting using “clickers”.

Texts: Fundamentals of Physics by Walker, Eighth Edition (Wiley, 2008).
The study guide for this text is in the bookstore but is optional.

CPSPadRequired:

This course will be using the elnstruction student response system. You will need to purchase a clicker (ISBN 978-1-881483-71-7) from the bookstore and bring it with you to every class session. The purchase of a CPS pad is **NOT** optional; it will be used as an integral part of this course. I will provide a short demonstration of how to use CPS in class.

Note: Students should purchase ONLY ONE “CLICKER” because the same unit can be used in every class that chooses to use the CPS system. Do NOT use activation system on the box, instead, refer to directions below.

After you purchase your clicker, you must register your clicker online for this class through Blackboard. Instructions for the registration process can be found here: <http://www.unf.edu/dept/cirt/tech/srs/student.htm>.

Attendance: Since students find this course demanding I strongly encourage you to attend class regularly. I will sometimes take attendance using the clickers.

Exams: There will be four semester exams and a comprehensive final exam. I will drop the lowest of the four semester exams. **There are no exam make ups so if you miss an exam for any reason then you can use that exam as your drop.** The exams will cover the class material and material from Walker’s textbook. You may bring in a lowest-level scientific calculator and an 8.5"x11" sheet of paper (writing on one side) to each exam.

Homework: Homework will be assigned, collected, and a subset of these will be graded throughout the semester. Turn your homework in, writing on one side and staple your work together, please. The solutions to the homework will be available *after* the due date and will be pdf files located here, <http://www.unf.edu/~jgarner> Late homework will not be graded. I will drop the lowest of your homework grades. You might like to work homework in as a team of two or three people.

Questions: I like to have questions and discussion in class, so please speak up!

Point Distribution and Grade: The grade is based on:

Semester Exams 3 x 15 %	=	45 %
Comprehensive Final Exam	=	25 %
Homework	=	25 %
Class participation (clickers)	=	5%

Generally, the class average is somewhere in the 60%'s , which is in the C range.

SOPHOMORE PHYSICS AWARD: The top student in the PHY 2048-2049 sequence will win the department of physics Sophomore Physics Award.

CALCULUS-BASED PHYSICS II TENTATIVE SCHEDULE

<u>Week/Dates</u>	<u>Reading</u>	<u>Homework Problems</u>	<u>Due</u>
NOTE: It will be announced in class what sections of a chapter we will be skipping.			
CHAPTER			
1. 1/8 to 1/11	21	_____	1/15
2. 1/15 to 1/18	22	_____	1/22
3. 1/22 to 1/25	23	_____	1/29
4. 1/29 to 2/1	24	_____	2/8
THURSDAY Jan. 31 EXAM I Chs. 21-22-23			
5. 2/5 to 2/8	25	_____	2/12
6. 2/12 to 2/15	26	_____	2/19
7. 2/19 to 2/22	27	_____	2/29
THURSDAY Feb. 21 EXAM II Chs 24-25-26			
8. 2/26 to 2/29	28	_____	3/4
9. 3/4 to 3/7	29	_____	3/11
10. 3/11 to 3/14	30	_____	3/25
THURSDAY Mar. 13 EXAM III Chs 27-28-29			
11. 3/18 to 3/21	NO CLASS-- SPRING BREAK		
12. 13/25 to 3/28	31	_____	4/1
13. 4/1 to 4/4	33	_____	4/8
14. 4/8 to 4/11	34	_____	4/18
THURSDAY Apr. 10 EXAM IV Chs 30-31-33			
15. 4/15 to 4/18	35	_____	4/22
16. 4/22 to 4/25	36	_____	
Comprehensive Final Exam			