

# PHY 113–01 PRINCIPLES OF PHYSICS - Spring 2008

31 March 2008 to 14 June 2008

**LECTURE:** 11:00 - 11:50 AM M,W,F #116 Health Sciences

**INSTRUCTOR:** Sarah Tebbens, Office F203, [sarah.tebbens@wright.edu](mailto:sarah.tebbens@wright.edu), Office hrs MW Noon-1pm

**TEXTBOOK:** *Physics - Principles with Applications*, Sixth Edition, Douglas C. Giancoli, 2005.

**RECITATION:** Recitation classes meet on Thursday. **Registration in a recitation class is required.** The recitation focuses on preparation for the following week's homework assignment. Your recitation instructor will be available to answer questions. Before each recitation class, it is recommended that you review the textbook readings and your lecture notes.

**HOMEWORK:** The homework assignment for each recitation class is listed on a following page. Your homework, neatly written with pages stapled together, showing your work and with your answers clearly presented (e.g., underlined or boxed ) is due at the start of the recitation class. **No late homework will be accepted.** You may submit your homework before the start of your recitation class to the Physics Office staff (248 Fawcett) to be stamped, dated and placed in the PHY113 box. Answers will be posted on the second floor of Fawcett Hall during the week following their due date. Selected parts of each homework will be graded. Missing homework will receive a grade of zero. One homework grade will be dropped.

**LABORATORY:** **Concurrent registration in, or previous completion of, PHY 103 is required.** Laboratory classes will not meet during the week of 27 March. See Mr. William Wagner, Laboratory Director, (239 Fawcett) about questions related to the laboratory class.

**QUIZ:** A quiz on the reading assignments will be administered each week via WebCT. The quizzes are to be completed by 10:45am each Monday, unless otherwise noted on the next page. *The first two quizzes cover Chapters 20 and 21 and are BOTH due Apr 07.* You will receive a grade of zero for any quiz that you miss. One quiz grade will be dropped. If you have any problems with your account or WebCT, let me know BEFORE that quiz is due. Quizzes are open book.

**EXAMINATIONS:** Three hour-long exams will be administered as listed in the schedule. The third exam will be administered during the first hour Three hour-long exams will be administered as listed in the schedule. The third exam will be administered during the first hour of the final exam period. Questions will be based on the assigned sections of the textbook, the lectures, on-line quizzes, and the homework assignments.

You will receive a grade of zero for any scheduled exam that you miss. An **optional** hour-long make-up exam *on the same material as the first two hourly exams* will be administered during the second hour of the final exam period. Your grade on the optional make-up exam can replace your exam 1 OR exam 2 grade (whichever was lower), if the make-up exam grade is higher. If the make-up exam grade is lower than your exam 1 and exam 2 grades, it will not count towards your grade. There is no make-up exam for the third in-depth exam or for the make-up exam.

You may prepare one 8 ½" by 11" formula sheet for use during each exam. No other papers or books may be used except those distributed with the exam. You must provide your own scientific calculator and pencils. Spare batteries, pencils, and working erasers are recommended. Only one cheat sheet is allowed in each exam, including the make-up exam.

In the event of a storm, if the University is open the exam will take place as scheduled.

Monday Lecture	Wednesday Lecture	Friday Lecture	Thursday Recitation Home work due at beginning of class*
31 Mar Chapter 20	02 Apr Chapter 20	04 Apr Chapter 20	03 Apr There is recitation this week. No lab.
07 Apr (Quizzes due) Chapter 21	09 Apr Chapter 21	11 Apr Chapter 21	10 Apr <b>Two quizzes</b> cover Ch 20 and 21 Chap 20 # 2, 5, 29, 32, 49
14 Apr (Quiz due) Chapter 22	16 Apr Chapter 22	18 Apr Chapter 22	17 Apr Quiz covers Ch 22 Chap 21 # 6, 11, 18, 20, 30, 34
21 Apr <b>Exam I</b> Chapters 20-21	23 Apr (Quiz due) Chapter 23	25 Apr Chapter 23	24 Apr Quiz covers Ch 23 Chap 22 # 5, 6, 7, 16, 39
28 Apr (Quiz due) Chapter 24	30 Apr Chapter 24	02 May Chapter 24	01 May Quiz covers Ch 24 Chap 23 # 8, 16, 26, 38, 43, 49
05 May (Quiz due) Chapter 25	07 May Chapter 25	09 May Chapter 26	08 May Quiz covers Ch 25 Chap 24 # 1, 8, 14, 17, 27, 36
12 May (Quiz due) Chapter 26	14 May Chapter 26	16 May Chapter 26	15 May Quiz covers Ch 26 Chap 25 # 2, 6, 12, 22, 29, 39
19 May <b>Exam II</b> Chapters 22-25	21 May (Quiz due) Chapter 27	23 May Chapter 27	22 May Quiz covers Ch 27 Chap 26 # 15, 16, 20, 22, 25
26 May No Class	28 May (Quiz due) Chapter 30	30 May Chapter 30	29 May Quiz covers Ch 30 Chap 27 # 1, 4, 6, 7
02 Jun Chapter 30	04 Jun Chapter 30	06 Jun Review	05 Jun No Quiz this week Chap 30 # 1, 9, 18, 33, 36, 40

\*Note: Homework problems are subject to change.

**Final exam:** Friday, 13 June 2008 10:45 – 11:45AM Chapters 26, 27, 30

**Optional Make-up exam:** Friday, 13 June 2008 11:50 - 12:45 PM Chapters 20-25

### TOPICS:

Chapter 20: Magnetism

Chapter 21: Electromagnetic Induction

Chapter 22: Electromagnetic Waves

Chapter 23 Light: Geometric Optics

Chapter 24: The Wave Nature of Light

Chapter 25: Optical Instruments

Chapter 26: Special Theory of Relativity

Chapter 27: Early Quantum Theory and  
Models of the Atom

Chapter 30: Nuclear Physics and Radioactivity

**ACADEMIC INTEGRITY** refers to the “integral” quality of the search for knowledge that a student undertakes. A student will be guilty of violating academic integrity if he/she a) knowingly represents work of others as his/her own, b) uses or obtains unauthorized assistance in the execution of any academic work, or c) gives fraudulent assistance to another student. [McGlynn, 2001]. Wright State University strictly enforces violations of academic integrity. For more information see

<http://www.wright.edu/students/judicial/>

Know the policy – ignorance is not a defense.

<b>GRADING:</b>	Three in-depth exams	300 points	To receive an “A”:	$420 \times 90\% = 378 = A$
	Homework assignments	80 points	“B”:	$420 \times 79\% = 332 = B$
	Weekly Reading Quiz	<u>40 points</u>	“C”:	$420 \times 68\% = 286 = C$
	<b>Total score</b>	<b>420 points*</b>	“D”:	$420 \times 57\% = 239 = D$
			“F”:	Below 239 = F

**\*EXTRA CREDIT**

**Quizzes:** Each reading quiz question contributes a half point towards your total score. The 40 points contributed by the reading quizzes towards the total score is based on reading quizzes of ten questions each. Some quizzes have more than ten questions which provide an opportunity for extra credit. It is therefore possible at the end of the term to have more than 40 points from reading quizzes contributing to your total score.

**Class Attendance:** Three or four times during the term I will distribute a sign-in sheet during class. Signing this sheet is worth an additional 3 points (each time) towards your total score used to calculate your grade.

**Recitation Attendance:** During the term, your recitation instructor will provide a sign-in sheet. Two or three of these will be randomly selected for extra credit points. Recitation attendance is worth an additional 3 points (for each randomly selected sheet) towards your total score used to calculate your grade.

**HELP** may be obtained from your lecturer or your recitation instructor. A help room is available at no cost in 201 Fawcett Hall. Times to be announced. See WebCT homepage. Additional practice problems are available at the book’s web site <http://physics.prenhall.com/giancolippa>

**WEBCT** To access materials on WebCT you need to have a WSU computer account. If you don’t have a WSU computer account, you can get one from CATS in the Library Annex. To access WebCT go to <http://wisdom.wright.edu>. Click on “log-on”, then enter using your WSU username and password. On next screen, all your registered courses that use WebCT will appear. Select PHY113.