

PHY 112-01 PRINCIPLES OF PHYSICS - Winter Term 2007

03 January 2007 to 16 March 2007

LECTURE: 11:00 am - 11:50 am on M, W, F in 101 Fawcett

INSTRUCTOR: Sarah Tebbens, Office F203, 775-3739, 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. In recitation class you will work in small groups on the solutions to study guides which involve topics from the lecture class. 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 the reverse side. Your homework, neatly written with pages stapled together, 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 PHY112 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 102 is required. Laboratory classes will not meet during the week of 02 January. See Mr. William Wagner, Laboratory Director, (239 Fawcett) about problems 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 are due Jan 15. *The first two quizzes cover Chapters 11 and 12 and are BOTH due Jan 15.* 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 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	Wednesday	Friday	Thursday
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Lecture	Lecture	Lecture	Recitation (HW due by start of recitation)
	03 Jan Chap 11	05 Jan Chap 11	04 Jan There IS recitation this week!
08 Jan Chap 12	10 Jan Chap 12	12 Jan (Quizzes due) Chap 12	11 Jan Two quizzes cover Ch 11 and 12 Chap 11 # 2, 9, 32, 38, 42, 56
15 Jan No classes**	17 Jan (Quiz due) Chap 13	19 Jan Exam I Chap 11-12	18 Jan Quiz covers Ch 13 Chap 12 # 6, 9, 16, 24, 25, 36
22 Jan Chap 13	24 Jan (Quiz due) Chap 13	26 Jan Chap 14	25 Jan Quiz covers Ch 14 Chap 13 # 4, 10, 13, 30, 31, 34
29 Jan (Quiz due) Chap 14	31 Jan Chap 14	02 Feb Chap 15	01 Feb Quiz covers Ch 15 Chap 14 # 1, 6, 9, 14, 32, 34
05 Feb (Quiz due) Chap 15	07 Feb Chap 15	09 Feb Chap 16	08 Feb Quiz covers Ch 16 Chap 15 # 2, 4, 6, 10, 18, 26
12 Feb (No Quiz) Exam II Chap 13-15	14 Feb Chap 16	16 Feb Chap 16	15 Feb No Quiz this week Chap 16 # 2, 6, 12, 23, 27, 31
19 Feb (Quiz due) Chap 17	21 Feb Chap 17	23 Feb Chap 17	22 Feb Quiz covers Ch 17 Chap 17 # 1, 4, 14, 34, 46, 47
26 Feb (Quiz due) Chap 18	28 Feb Chap 18	02 Mar Chap 18	01 Mar Quiz covers Ch 18 Chap 18 # 6, 11, 12, 26, 43, 48
05 Mar(Quiz due) Chap 19	07 Mar Chap 19	09 Mar Chap 19	08 Mar Quiz covers Ch 19 Chap 19 # 6, 8, 15, 23, 35, 44
		16 Mar FINAL EXAM	10:45am Final exam (Chap 16-19) 11:55am Optional make-up (Ch 11-15)

Note: Homework problems are subject to change.

** January 15 is a University holiday. No class. On-line quiz is due by 10:45am January 17th.

Final exam: Friday 16 March 10:45 AM - 11:50 AM Chapters 16 - 19

Optional Make-up exam: Friday 16 March 11:55 AM – 1:00 PM Chapters 11 – 15

TOPICS:

Chapter 11: Vibration and Waves

Chapter 12: Sound

Chapter 13: Temperature and Kinetic Theory

Chapter 14: Heat

Chapter 15: The Laws of Thermodynamics

Chapter 16: Electric Charge and Electric Field

Chapter 17: Electric Potential

Chapter 18: Electric Currents

Chapter 19: DC Currents

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.

GRADING:	Three in-depth exams	300 points	To receive an "A": $420 \times 88\% = 370 = A$
	Homework assignments	80 points	"B": $420 \times 76\% = 319 = B$
	Weekly Reading Quiz	<u>40 points</u>	"C": $420 \times 63\% = 265 = C$
	Total score	420 points	"D": $420 \times 50\% = 210 = D$
			"F": Below 210 = F

EXTRA CREDIT 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.

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 PHY112.