

# PHY 111 - PRINCIPLES OF PHYSICS - Fall 2008

08 September 2008 to 21 November 2008

**LECTURE:** 11:00 am- 11:50 am on MWF in Health Sciences Oelman OH 112.

**INSTRUCTOR:** Sarah Tebbens, Office F203, [sarah.tebbens@wright.edu](mailto:sarah.tebbens@wright.edu), office hours MW 12-1pm

**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.** 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 101 is required.** Laboratory classes will not meet during the week of 8 September. 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. 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 or other disruption, 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*
08 Sep Intro/Chapter 1	10 Sep Chapter 1	12 Sep Chapter 2	11 Sep Chapter 1 No quiz this week 3, 8, 9, 12, 19, 22 Recitation meets. No lab.
15 Sep <i>Quiz 1 due</i> Chapter 2	17 Sep Chapter 2	19 Sep Chapter 3	18 Sep Chapter 2 Quiz covers Ch 1- 2 7, 10, 19, 22, 27, 37
22 Sep <i>Quiz 2 due</i> Chapter 3	24 Sep Chapter 3	26 Sep Chapter 4	25 Sep Chapter 3 Quiz covers Ch 3 1, 4, 10, 18, 30, 41
29 Sep <b>Exam 1</b> Ch. 1-3	01 Oct <i>Quiz 3 due</i> Chapter 4	03 Oct Chapter 4	02 Oct Chapter 4 Quiz covers Ch 4 3, 4, 7, 18, 36, 51
06 Oct <i>Quiz 4 due</i> Chapter 5	08 Oct Chapter 5	10 Oct Chapter 5	09 Oct Chapter 5 Quiz covers Ch 5 1, 4, 9, 28, 43, 53
13 Oct <i>Quiz 5 due</i> Chapter 6	15 Oct Chapter 6	17 Oct Chapter 6	16 Oct Chapter 6 Quiz covers Ch 6 4, 5, 18, 34, 47, 58
20 Oct <b>Exam 2</b> Ch 4-6	22 Oct <i>Quiz 6 due</i> Chapter 7	24 Oct Chapter 7	23 Oct Chapter 7 Quiz covers Ch 7 1, 5, 7, 8, 16, 22
27 Oct <i>Quiz 7 due</i> Chapter 7	29 Oct Chapter 8	31 Oct Chapter 8	25 Oct Chapter 8 Quiz covers Ch 8 6, 15, 27, 37, 43, 51
03 Nov <i>Quiz 8 due</i> Chapter 8	05 Nov Chapter 9	07 Nov Chapter 9	06 Nov Chapter 9 Quiz covers Ch 9 1, 5, 9, 12, 16, 19
10 Nov <i>Quiz 9 due</i> Chapter 10	12 Nov Chapter 10	14 Nov Chapter 10	13 Nov Chapter 10 Quiz covers Ch 10 3, 11, 16, 17, 22, 25

\*Note: Homework problems subject to change.

**Final exam (Ch 7-10):** Friday 21 November 10:45 am - 11:45 am

**Make-up exam (Ch 1-6):** Friday 21 November 11:50 am - 12:50 am

### TOPICS:

Chapter 1: Introduction, Measurement,  
Estimating

Chapter 2: Describing Motion: Kinematics in One  
Dimension

Chapter 3: Kinematics in Two Dimensions:  
Vectors

Chapter 4: Dynamics: Newton's Laws of Motion

Chapter 5: Circular Motion: Gravitation

Chapter 6: Work and Energy

Chapter 7: Linear Momentum

Chapter 8: Rotational Motion

Chapter 9: Static Equilibrium

Chapter 10: Fluids

**ACADEMIC INTEGRITY** refers to the “integral” quality of the search for knowledge that a student undertakes. The work a student produces, therefore, ought to be wholly his or hers; it should result completely from the student's own efforts. 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. Past violations include collaborating with others on graded course work including in class exams, take-home tests, on-line quizzes, and homework assignments. 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”:	$430 \times 90\% = 387 = A$
	Homework assignments	90 points	“B”:	$430 \times 79\% = 340 = B$
	Weekly Reading Quiz	<u>40 points</u>	“C”:	$430 \times 68\% = 292 = C$
	<b>Total score</b>	<b>430 points*</b>	“D”:	$430 \times 57\% = 245 = D$
			“F”:	Below 245 = F

**\*EXTRA CREDIT**

Your grade is based on a total of 430 points. However, it is possible to finish the term with more than 430 points, as there are two means of obtaining additional extra credit points:

**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.

**Attendance:** Three or more 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. There will also be two or three attendance extra credit opportunities at your recitation class.

**HELP** may be obtained from your lecturer or your recitation instructor. A help room is available at no cost in 213A 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> or in the optional **Student Study Guide** available at the bookstore.

**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 PHY111.