

# PHY XXX - PRINCIPLES OF PHYSICS - Fall 2012

20 August 2012 to 09 December 2012

**LECTURE:** 11:00 am- 11:55 am on MWF in ... [55 minute classes, 3 times a week]

**INSTRUCTOR:** TBA

**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. There is recitation the first week of class. Sign the attendance sheet.

**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. Show your work and underline or box in your answers. **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 20 August. 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:** Four hour-long exams will be administered as listed in the schedule. The fourth 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 three 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, exam 2 OR exam 3 grade (whichever was lowest), if the make-up exam grade is higher. If the make-up exam grade is lower than your exam 1, exam 2 and exam 3 grades, it will not count towards your grade. There is no make-up exam for the fourth 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.

## Class, homework, and on-line quiz Schedule

Monday Lecture	Wednesday Lecture	Friday Lecture	Thursday Recitation Home work due at beginning of class*
20 Aug Intro/Chapter 1	22 Aug Chapter 1	24 Aug Chapter 2	23 Aug No quiz this week. No lab. Chap 1 #3, 8, 9, 12, 19, 22 Recitation meets.
27 Aug <i>Quiz 1 due</i> Chapter 2	29 Aug Chapter 3	31 Aug Chapter 3	30 Aug Quiz covers Ch 1-2 Chap 2 # 7, 10, 19, 22, 27, 37
03 Sep Labor Day <b>No classes</b>	05 Sep <i>Quiz 2 due</i> Chapter 3	07 Sep Chapter 4	06 Sept Quiz covers Ch 3 Chap 3 # 1, 4, 10, 18, 30, 41
10 Sep <b>Exam 1</b> Ch 1-3	12 Sep <i>Quiz 3 due</i> Chapter 4	14 Sep Chapter 4	13 Sep Quiz covers Ch 4 Chap 4 # 3, 4, 7, 18, 36, 51
17 Sep <i>Quiz 4 due</i> Chapter 5	19 Sep Chapter 5	21 Sep Chapter 5	20 Sep Quiz covers Ch 5 Chap 5 #1, 4, 9, 28, 43, 53
24 Sep <i>Quiz 5 due</i> Chapter 6	26 Sep Chapter 6	28 Sep Chapter 7	27 Sep Quiz covers Ch 6 Chap 6 #4, 5, 18, 34, 47, 58
01 Oct <b>Exam 2</b> Ch 4-6	03 Oct <i>Quiz 6 due</i> Chapter 7	05 Oct Chapter 7	04 Oct Quiz covers Ch 7 Chap 7 #1, 5, 7, 8, 16, 22
08 Oct <i>Quiz 7 due</i> Chapter 8	10 Oct Chapter 8	12 Oct <b>No class</b> <i>Veteran's Day</i>	11 Oct Quiz covers Ch 8 Chap 8 #6, 15, 27, 37, 43, 51
15 Oct <i>Quiz 8 due</i> Chapter 9	17 Oct Chapter 9	19 Oct Chapter 9	18 Oct Quiz covers Ch 9 Chap 9 # 1, 5, 9, 12, 16, 19
22 Oct Chapter 10	24 Oct <i>Quiz 9 due</i> Chapter 10	26 Oct Chapter 10	25 Oct Quiz covers Ch 10 Chap 10 # 3, 11, 16, 17, 22, 25
29 Oct <i>Quiz 9 due</i> <b>Exam 3</b> (Ch 7-10)	31 Oct Chapter 11	02 Nov Chapter 11	01 Nov Quiz covers Ch 11 Chap 11 # 4, 9, 32, 38, 43, 59
05 Nov Chapter 11	07 Nov Chapter 12	09 Nov Chapter 12	01 Dec Quiz covers Ch 12 Chap 12 # 4, 9, 16, 24, 25, 37
12 Nov Chapter 13	14 Nov Chapter 13	16 Nov Chapter 13	15 Nov Quiz covers Ch 13 Chap 13 # 4, 10, 13, 31, 34, 35
19 Nov Chapter 14	21 Nov <b>No class</b>	23 Nov <b>No class</b>	22 Nov No homework. <b>Happy Thanksgiving.</b>
26 Nov Chapter 14	28 Nov Chapter 14	30 Nov Chapter 15	29 Nov Quiz covers Ch 14 Chap 14 # 1, 6, 9, 12, 32, 39
03 Dec Chapter 15	05 Dec Chapter 15	07 Dec Chapter 15	06 Dec Quiz covers Ch 15 Chap 15 # 1, 2, 3, 6, 17, 26

\*Note: Homework problems subject to change.

**Final exam (Ch 11-14):** Friday 09 December 10:45 am - 11:45 am [exam week Dec 5-9]

**Make-up exam (Ch 1-10):** Friday 09 December 11:50 am - 12:50 am

### NOTES:

I based this schedule off of Miami University's academic calendar. I think WSU will have one fewer week than I've included (per AAUP we will have 15 week terms, with 14 weeks of instruction and one week of finals).

If this schedule includes one too many weeks, we may consider having this class cover Chapters 1-14. We can also have (at least) one fewer exam to free up instructional time.

**TOPICS:**

Chapter 1: Introduction, Measurement, Estimating	Chapter 8: Rotational Motion
Chapter 2: Describing Motion: Kinematics in One Dimension	Chapter 9: Static Equilibrium
Chapter 3: Kinematics in Two Dimensions: Vectors	Chapter 10: Fluids
Chapter 4: Dynamics: Newton's Laws of Motion	Chapter 11: Vibration and Waves
Chapter 5: Circular Motion: Gravitation	Chapter 12: Sound
Chapter 6: Work and Energy	Chapter 13: Temperature and Kinetic Theory
Chapter 7: Linear Momentum	Chapter 14: Heat
	Chapter 15: The Laws of Thermodynamics

**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>	Four in-depth exams	400 points	To receive an “A”:	$605 \times 90\% = xxx = A$
	Homework assignments	140 points	“B”:	$605 \times 79\% = xxx = B$
	Weekly Reading Quiz	<u>65 points</u>	“C”:	$605 \times 68\% = xxx = C$
	<b>Total score</b>	<b>605 points*</b>	“D”:	$605 \times 57\% = xxx = D$
			“F”:	Below xxx = F

**\*EXTRA CREDIT**

Your grade is based on a total of 605 points, as outlined above. It is possible to finish the term with more than 605 points. There are two means of obtaining extra credit points:

**Quizzes:** Each reading quiz question contributes a half point towards your total score. The 65 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 65 points from reading quizzes contributing to your total score.

**Class Participation:** Sign-in attendance sheets and/or using clickers during lecture will earn you up to 10 additional points during the term. These points are in addition to the 605 points outlined above. A randomly selected sign-in sheet from recitation class will also earn you up to 3 additional points.

**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.

**CLICKER REGISTRATION** (you can obtain clickers at the bookstore)

1. Go to the website [student.turningtechnologies.com](http://student.turningtechnologies.com)
2. Enter your ResponseCard ID (found on back of clicker)
3. Enter your first name and last name in the appropriate fields
4. "Other Field" can include your UID or be left empty
5. Complete security entry
6. Press Next
7. Enter instructor's email address ([sarah.tebbens@wright.edu](mailto:sarah.tebbens@wright.edu))
8. Select class name that you are in for this instructor (PHY 111) and add it to the list on the right
9. Click Next and confirm information. You may click Back if you find information you need to correct.