

Classroom: Physics building 202

Time: 11:00 am – 12:15pm

Course Instructor: Y.-P. Zhao

Office: Physics Building 209 or Riverbend Research Lab South 221

Phone: 706-542-7792 or 706-542-2843

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Office Hour: Tuesday and Thursday immediately after class or make an appointment

Required Textbook: Randall D. Knight “*Physics for Scientists and Engineers: A Strategic Approach*” Second Edition (Pearson-Addison Wesley, 2007)

Course Format: This course consists of two classes and one lab per week. Each class lasts one hour and fifteen minutes. Before coming to class, you should have read the assigned material, and worked out the assigned questions and problems (homework). In the beginning of the class, I will review the home-work problems, and then give a general lecture to review the basic concepts and materials covered in the class. During the lecture, an in-class activity sheet will be handed out to each student. The student can either work independently, or to form a team and work together. Before leaving the classroom, the in-class activity sheet should be submitted to the instructor. *A grade will be awarded for each class.*

In-Class Activity: In the main part of the class, you will be assigned to work in teams or independently on problems on which you will be graded. This grade is your in-class activity grade, which will contribute 10% of your final class grade.

Homework: There are two kinds of homework assignments. One is the reading assignment, which will be the materials covered in next class. Another assignment is the normal assignment covering materials in current lecture. A homework grade will be assigned to the homework assignment. Each homework assignment must be submitted no later than the start of the class in which it will be discussed. Homework grade will contribute 20% of your final class grade

Major Quizzes: There will be *three major tests* in this course (Details see class schedule). It is your responsibility to stay informed about all announcements concerning this course by attending the lecture and by regularly checking the WebCT.

You will be allowed to bring to each test, a writing instrument, a pocket calculator, and one original 8.5" by 11" sheet of paper containing constants, formulas, and any other information that you might find useful. Both sides of the sheet may be used. No formulas or constants will be provided on the testes. You are not allowed to use anything else during the test. No computers, PDAs (Palm Pilots, et al.), or cell phones. Use of these or other electronic devices during a test is a form of academic dishonesty.

There will be no course-wide make-up tests for students who miss one of the major tests. If you miss one, contact me immediately to find out what you should do. A grade of zero will be awarded for any major test that is missed without a valid reason. If you know that you cannot

get to a test, for any reason, let me know as soon as possible. Often these problems can be handled more easily before the fact.

Grades: Your class grade will be determined as follows:

Major Quiz and Final Exam:	70%
Homework Grade:	20%
In-Class Activity Grade:	10%

The grade for major tests and final examination will be the weight average. The final examination counts for two tests. When all the grades are in, the lowest of the four will be dropped, and your test grade will be based on the best three. If the final examination is the lowest grade, it will count as one test, and it will be averaged with the other two. There is one exception to this rule, if a grade of zero is received as a result of academic dishonesty, that grade will not be dropped.

Also the lowest Homework grade and in-class activity grade will be dropped. If you miss any class, homework, or major test, without an excuse, that will become the lowest grade that gets dropped. If you miss again, it will not be dropped. There is one exception to this rule also, if a grade of zero is received as a result of academic dishonesty, that grade will not be dropped.

Your overall grade in this course will be determined by your *Average Score (AS)* which is computed as $Average\ Score = 0.85 \times class\ grade + 0.15 \times Lab\ grade$. Your overall letter grade in this course will be:

A	if	AS	\geq	85		
A⁻	if	85	$>$	AS	\geq	80
B⁺	if	80	$>$	AS	\geq	75
B	if	75	$>$	AS	\geq	70
B⁻	if	70	$>$	AS	\geq	65
C⁺	if	65	$>$	AS	\geq	60
C	if	60	$>$	AS	\geq	55
C⁻	if	55	$>$	AS	\geq	50
D	if	50	$>$	AS	\geq	30
F	if	30	$>$	AS		

Withdraw Policy: As long as the student regularly attends the class (his/her presence will be seen from in-class activity), and hand in home-work before the withdraw deadline, if he or she wishes to withdraw from the class before the withdraw deadline, he or she will obtain a “W”. If the student seldom comes to the class and does not hand in homework but wishes to withdraw right before the withdraw deadline (<40% of classes and numbers if homework up to the date of withdraw requirement), he or she will obtain a “WF”.

Academic Integrity: The development of teamwork skills is a course objective in Physics 1211. Hence, all students are expected to actively participate in a collaborative group of students when working on the in-class activity or homework. However, each student must turn in her/his own activity or homework write-up containing only work to which she/he contributed. Activity write-ups from groups of students will not be accepted. No student will submit an activity or homework in the name of any other student. This is considered cheating by both students involved and will be handled according to the policy for academic dishonesty stated below. Collaboration of any sort during an examination or test is prohibited and considered academic dishonesty. The first occurrence of academic dishonesty will result in a score of zero on the assignment, activity, test or exam in question, and the violator will receive a written warning. A zero received as a result of academic dishonesty will NOT be dropped from the record as the lowest grade. The second occurrence of academic dishonesty will result in an “F” for the course.

WebCT Instruction

The student is required to register in WebCT. The registration instruction is can be found in the following website <https://webct.uga.edu/www/student/guide/>. The WebCT will be used to serve the following purposes: (1) Post class notes; (2) Post homework assignments and solutions; (3) Post test and exam solutions; 4) Post notices for students.

Registration: Please send your UGA e-mail address to me if you have trouble to access this course in WebCT.

Log-in: You should find detailed guidelines at <https://webct.uga.edu/www/student/guide/>.

Temporary Class Schedule

Physics Building 202

(Depending on the progress, this schedule is subject to change. Please follow the class instruction)

Week	Dates	Reading Assignment	Comments
1	Tue, Aug. 18 class 1	Introduction/Vector Math	Chap. 1 & 3
	Thr, Aug. 20 class 2	Vector Math/1D Kinematics	Chap. 3 & 2
2	Tue, Aug. 25 class 3	1D Kinematics	Chap. 2
	Thr, Aug. 27 class 4	2D Kinematics	Chap. 4
3	Tue, Sep. 1 class 5	2D Kinematics	Chap. 4
	Thr, Sep. 3 class 6	Review	
4	Tue, Sep. 8 class 7	Test 1 (Chap. 1-4)	
	Thr, Sep. 10 class 8	Newton's Second Law	Chap. 5 & 6
5	Tue, Sep. 15 class 9	Newton's Second Law	Chap. 5 & 6
	Thr, Sep. 17 class 10	Newton's Third Law	Chap. 7
6	Tue, Sep. 22 class 11	Motion in a plane	Chap. 8
	Thr, Sep. 24 class 12	Motion in a plane	Chap. 8
7	Tue, Sep. 29 class 13	Inpulse and Momentum	Chap. 9
	Thr, Oct. 1 class 14	Inpulse and Momentum	Chap. 9
8	Tue, Oct. 6 class 15	Review	
	Thr, Oct. 8 class 16	Test 2 (Chap. 5-6)	Midterm
9	Tue, Oct. 13 class 17	Work & Energy	Chap. 10 & 11
	Thr, Oct. 15 class 18	Work & Energy	Chap. 10 & 11
10	Tue, Oct. 20 class 19	Work & Energy	Chap. 10 & 11
	Thr, Oct. 22 class 20	Work & Energy	Withdraw deadline
11	Tue, Oct. 27 class 21	Rotation Motion	Chap. 12
	Thr, Oct. 29 class 22	Rotation Motion	Chap. 12
12	Tue, Nov. 3 class 23	Gravitation	Chap. 13
	Thr, Nov. 5 class 24	Gravitation	Chap. 13
13	Tue, Nov. 10 class 25	Review	
	Thr, Nov. 12 class 26	Test 3 (Chap. 10-13)	
14	Tue, Nov. 17 class 27	Oscillation	Chap. 14
	Thr, Nov. 19 class 28	Oscillation	Chap. 14
15	Thanksgiving Holiday	Nov. 23 - 27	
16	Tue, Dec 1 class 29	Fluids	Chap. 15
	Thr, Dec 3 class 30	Fluids	Chap. 15
18	Friday, Dec. 11	12:00-3:00pm Final Exam	