

PHYS 2010: General Physics 1

Syllabus – Fall 2009

Course Number: PHYS-2010-201

Meeting Times: Mon/Wed 5:30 – 6:50

Location: Brown Hall 370

Textbook: *College Physics, 8th Edition* by Serway, Faughn, and Vuille

Lecturer: Brian Espino

Email: espino@etsu.edu

Office Hours: Monday/Friday 10:30 – 11:30 (Brown Hall #282, 439-8682) or by appointment

Course website: <http://www.etsu.edu/physics/espino/courses/gp1fall09/gp1fall09.htm>

Tentative Course Outline		
Dates	Topics	Readings
Aug. 31, Sept. 2	Introduction, 1-D motion	Ch. 1, 2
Sept. 7	Labor Day, No class	
Sept. 9	1 Dimensional Motion	Ch. 2
Sept. 14, 16 (Quiz#1)	2 Dimensional Motion	Ch. 3
Sept. 21, 23 (Quiz#2), 28	Newton's Laws of Motion	Ch. 4
Sept. 30	Exam 1, Chapters 1 - 4	
Oct. 5, 7	Work and Energy	Ch. 5
Oct. 12, 14	Linear Momentum and Collisions	Ch. 6
Oct. 19	Fall Break, No Class	
Oct. 21 (Quiz#3), 26	Circular Motion, Gravitation	Ch. 7
Oct. 28	Exam 2, Chapters 5 - 7	
Nov. 2, 4, 9	Equilibrium and Rotational Dynamics	Ch. 8
Nov. 11, 16	Solids and Fluids	Ch. 9
Nov. 18 (Quiz#4), 23	Thermal Physics	Ch. 10 Sections 1-3, Ch. 11
Nov. 25	Gas Laws and Kinetic Theory	Ch. 10 Sections 4, 5
Nov. 30	Thermodynamics	Ch. 12
Dec. 2	Exam 3, Chapters 8 - 12	
Dec. 7, 9	Semester Review	
Monday, Dec. 14	Final Exam 6:00 - 8:00	Comprehensive

Any changes in the test/quiz dates will be announced in class.

Homework and Quizzes:

At the beginning of each chapter I will make a list of problems that are suggested that you work out. They will not be turned in for a grade but will be very useful in preparing for quizzes and exams. There will be 4 quizzes, each worth 25 points, during the semester. Quizzes will typically consist of problems similar to a suggested homework problem. If you work the suggested homework problems the quizzes and exams will be noticeably less difficult.

Attendance:

Attendance is not mandatory, but is encouraged. Students who don't come to class usually do poorly. Students are encouraged to ask questions during class and problems are usually worked out when there is time left at the end of class. As a courtesy to others, cell phones should be silenced and put away during class. Texting during class will not help your grade.

Exams:

There will be 3 exams given during the semester and a final exam given during exam week. They will be closed book closed notes. A partial list of equations will be included with the exam. Some equations you will be expected to memorize. The exams will consist of some multiple choice questions and problems and some longer problems to be worked out. All work on the longer problems needs to be included for credit can be earned. When applicable, concepts from earlier material may be carried over to later exams. Exams will be worth 100 points each. A calculator will be necessary for these exams. Everybody must use their own calculator during exams. A fancy graphing calculator will not help you any more than an ordinary scientific calculator. If you already have one, that is okay.

Prerequisites:

Math 1720 or equivalent knowledge. This class will involve solving problems which require the ability to use algebra and trigonometry.

Making up work:

Replacement quizzes and exams will only be allowed in extenuating cases (such as a severe illness, injury, or funeral), or when the student misses the exam/quiz due to an approved university activity. It is the responsibility of the student to schedule any necessary makeup work in a timely manner.

<u>Scores will be worth the following</u>		<u>(Points)</u>
4 Quizzes each worth	25 points each	100 points
3 Exams each worth	100 points each	300 points
<u>Comprehensive final exam worth</u>		<u>200 points</u>
Total points possible		600 points

Grades will be earned via the following distribution of scores:

<u>Grade Earned</u>	<u>%</u>	<u>Points</u>
A	90 – 100%	540 – 600
A-	88 – 89.9%	528 – 539
B+	84 – 87.9	504 – 527
B	80 – 83.9%	480 – 503
B-	76 – 79.9%	456 – 479
C+	72 – 75.9%	432 – 455
C	68 – 71.9%	408 – 431
C-	64 – 67.9%	384 – 407
D+	60 – 63.9%	360 – 383
D	50 – 59.9%	300 – 359
F	< 50%	< 300

Any student with a special need for an accommodation for any course activity should meet with the instructor as soon as possible to make arrangements for any necessary arrangements. If you need to meet with me please do this at least a week before the first exam.

Students are expected to adhere to a code of academic integrity. Plagiarism, cheating, and other forms of academic dishonesty are prohibited, and any student who is found to commit such an act will receive an F for the course.