

Physics 2211K
Principles of Physics I
Fall 2010

Lecture: 11:00 – 12:15, TR Room 233 Aderhold

Lab: M 9:00 – 11:50 (CRN 81031)
W 9:00 – 11:50 (CRN 81032)
W 1:00 – 3:50 (CRN 81033)

PREREQUISITES: *D or better in Math 2211 or equivalent.*

TEXTBOOK: *Physics for Scientists and Engineers, 2nd ed. Randall D. Knight. In addition, a subscription to Mastering Physics is required. (This is automatic with new textbooks purchased at the local bookstores.)*

COURSE ID for Mastering Physics: *MPNELSON93782*

LAB MANUAL: *On line at <http://www.phy-astr.gsu.edu/butler/labs/index.html>. (This website also gives general information on the laboratory policies and procedures along with the term's schedule of labs.)*

Instructor: Dr. Nelson (<http://www.phy-astr.gsu.edu/nelson/teaching.htm>)
Office: Rm. 408 Science Annex & rm. 740 GCB (inside the A&S Dean's suite)
Office Hours: W 9:30 – 10:30, R 9:30 – 10:30, and by appointment

Dates:	Section:	Contents:
8/24 - 9/16	1.	Describing motion: Kinematics. Ch. 1 - 4
9/21 - 10/12	2.	Newton's laws: Force and momentum. Ch. 5 - 9
10/14 - 11/4	3.	Work, energy, and motion of rigid bodies. Ch. 10 - 13
11/9 - 12/2	4.	Oscillations, thermodynamics, and wave motion. Ch. 14, 16, 17, 20, 21

Last class: 12/2

Holidays: Week of 11/22 (Thanksgiving)

Tests:
1. 9/16, Chapters 1-4
2. 10/12, Chapters 5 – 9
3. 11/4, Chapters 10 - 13

Final Exam: Thur. 12/9, 10:45 – 1:15 (2½ hrs.) **COMPREHENSIVE** (All sections and all homework sets)

NOTE: **The schedule of coverage and testing listed above is an estimate. It is possible that the actual schedules will vary slightly as the term progresses.**

POLICIES

GRADING: *Grades for this course will be derived from the final exam, the tests, the homework and quizzes, and the laboratory as indicated below.*

Lab	25%
Homework & quizzes	30%
Tests and Exam	45%
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	100%

LABORATORY: *Laboratory attendance is required. For more information, see the Laboratory Policies at <http://www.phy-astr.gsu.edu/butler/labs/index.html>.*

HOMEWORK: *Homework assignments will be made available on Mastering Physics, and must be worked there.*

QUIZZES: *There will be quizzes at the end of many classes. These will be graded to contribute a portion of the homework grade. The exact number is uncertain at this time; however, if there are more than 10, the quiz component will come from the highest 10 quiz grades.*

THERE WILL BE NO MAKE-UP OR RESCHEDULING of quizzes. .

EXAMINATION MAKE-UP / RE-SCHEDULING: *Rescheduling of examinations will be considered on an individual basis. The general guideline is that exams may be rescheduled if absence on the exam date is unavoidable for business or medical reasons and that arrangements are made ahead of time. In case of illness which prevents attendance at an examination, rescheduling will require medical verification.*

ATTENDANCE: *All instructors are required to report the attendance of students receiving Veterans Benefits and / or Federal Aid / Student Loans. For this course, the information will come from quizzes and examinations, laboratory attendance, and random checks of class attendance.*

POLICY ON ACADEMIC HONESTY: *All students are subject to the University Policy on Academic Honesty. This is particularly important in the laboratory where students may be tempted to use work from another person in a previous term. The University Policy also describes the consequences of academic dishonesty.*

POLICY ON CALCULATORS AND CELL PHONES FOR EXAMS: *Programmable calculators, graphics calculators, hand held computers and any type of cell phone are not allowed for tests and exams. For these, you need to have a simple "scientific" calculator that has roots and trig functions. (These are available at Walmart, Office Depot, etc., for \$10 - \$15. An example is the TI-30 series.)*

POLICY ON CELL PHONES IN CLASS: *Anyone texting or talking on a cell phone during class will be asked to leave.*