

PES 100 – Physics in Everyday Life - Fall 2008

TR 10:50-12:05 Engineering #103

Course Syllabus

<p>Instructor: Robert G. Gist Office and Hours: ENGR 244, (W 6-7p, Thu 12:30-1:30pm) UCCS e-mail: rgist@uccs.edu Web Site: http://www.uccs.edu/~rgist Credit Hours: 3 Prerequisite: None Text: <i>How Things Work</i>, 2nd edition, by Louis A. Bloomfield Correction: <i>Physics of Everyday Phenomena</i>, 5th edition, by W. Thomas Griffith.</p>	<p>Course Description: A non-mathematical overview of physics and how it affects our everyday life. Topics to be included are balancing and equilibrium, tornadoes, weather patterns, circus balancing acts, air conditioners, musical instruments and other interesting applications of physics. Recommended for students with no science or mathematics background.</p>
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Evaluation: Your knowledge retention will be evaluated four times during the semester. Three evaluations will be mid-term and the fourth will be during the final exam period. Each evaluation counts as 25% of your grade. I will give you at least a week's notice as to the exact date of the evaluation as well as the material for which you will be responsible. To account for emergencies, I'll drop the lowest exam grade.

Evaluation Options: Three options will be offered for each evaluation: (1) an in-class, multiple choice exam; (2) an at-home problem set to be turned in on exam day; or (3) an essay describing and applying principles from class. You may choose to a single option, or you may do more than one option. If more than one option is chosen, the points will be combined, up to a maximum of 100% for that evaluation.

Grades: In summary, your grade will be weighted as shown. The letter grade ranges are posted on my website. Ranges include +'s and -'s.

Questions, comments: It is my hope that you will feel comfortable asking questions in class. Chances are that if you are unsure about some topic, there are others who have a similar question. I would like the class to be as interactive as possible. If you have relevant experience with a subject, please feel free to share comments with the class.

Reasonable accommodation: Students with a disability who require accommodations should provide a letter of accommodation from Student Enrichment Services (MH 105, x3354) within the first two weeks of the semester.

Calculators: Calculators will not be required for this course. Calculators will be allowed during exams, if desired.

Cell phones, PDAs, talking, leaving the classroom: Please show respect to the other members of the class by turning off the sound on cell phones and PDAs. Imperative phone calls should be taken outside the classroom. Also, keep conversation to a minimum during the lecture so that others can hear clearly. Please remain in the classroom unless an emergency arises, since foot traffic in the class can be disruptive to other students.

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Schedule (subject to change)

Date	Topic
26-Aug Tue	Ch 2: Describing Motion
28-Aug Thu	Ch 3: Falling Objects and Proj. Motion
2-Sep Tue	Labor Day Holiday
4-Sep Thu	Ch 4: Newton's Laws: Explaining Motion
9-Sep Tue	Ch 4: Newton's Laws: Explaining Motion
11-Sep Thu	Ch 5: Circ. Motion, the Planets, and Gravity
16-Sep Tue	Ch 6: Energy and Oscillations
18-Sep Thu	Review
23-Sep Tue	Exam #1
25-Sep Thu	Ch 7: Momentum and Impulse
30-Sep Tue	Ch 7: Momentum and Impulse
2-Oct Thu	Ch 8: Rotational Motion of Solid Objects
7-Oct Tue	Ch 8: Rotational Motion of Solid Objects
9-Oct Thu	Ch 9: The Behavior of Fluids
14-Oct Tue	Ch 10: Temperature and Heat
16-Oct Thu	Review
21-Oct Tue	Evaluation #2
23-Oct Thu	Ch 12: Electostatic Phenomena
28-Oct Tue	Ch 12: Electostatic Phenomena
30-Oct Thu	Ch 13: Electric Circuits
4-Nov Tue	Ch 14: Magnets and Electromagnetism
6-Nov Thu	Ch 14: Magnets and Electromagnetism
11-Nov Tue	Review
13-Nov Thu	Evaluation #3
18-Nov Tue	Ch 15: Making Waves
20-Nov Thu	Ch 16: Light Waves and Color
25-Nov Tue	Ch 16: Light Waves and Color
27-Nov Thu	Thanksgiving Holiday
2-Dec Tue	Ch 17: Light and Image Formation
4-Dec Thu	Ch 18: The Structure of an Atom
9-Dec Tue	Ch 20: Relativity
11-Dec Thu	Review
16-Dec Tue	Evaluation #4