

# Conceptual Physics I Fall 2008

## Syn 24443 PHY 1405 sect 002

Lecture	Mon/ Wed,	2:50 pm - 4:05 pm	Room 331
Lab	Mon/ Wed,	4:15 pm - 5:30 pm	Room 326
Office	Mon/ Wed, Tue/ Thur,	2:00 pm - 2:30 pm & 8:30 pm - 9:00 pm	Room 325.1 phone 223- 3303

week	chapter (section)	event	lab
Aug. 25, 27	1, 2 (start)		measurements
Sept. 3	2 (finish), 3		force table
Sept. 8, 10	4		“g” by falling
Sept. 15, 17	5	test ☉	air-track momentum
Sept. 22, 24	6, 7 (start)		air track energy
Sept. 29, Oct. 1	7 (finish), 8		energy conservation
Oct. 6, 8	9, 10		“g” by pendulum
Oct. 13, 15	11	test ☉	angular motion
Oct. 20, 22	12, 13		buoyant force
Oct. 27, 29	14, 15 (start)		Boyle’s law
Nov. 3, 5	15, 16		thermometers
Nov. 10, 12	17		transverse waves
Nov. 17, 19	18	test ☉	velocity of sound
Nov. 24, 26	19		standing waves
Dec. 1, 3	20, 21		more velocity of sound
Dec. 8, 10	review	test ☉	labs due Dec 10

It is very important that you are registered for class at this time. This will be checked, and you risk losing time and money if matters are not as they should be. See me immediately if there is any doubt.

Attendance is very important, and will be recorded for both class and labs. Being present for tests is mandatory. Test make-ups should be cleared **before** missing a test. Lab make-ups will be available on Fridays.

### Tests

Sept 17	Chapters 1, 2, 3, 4
Oct 15	Chapters 5, 6, 7, 8, 9, 10
Nov 19	Chapters 11, 12, 13, 14, 15, 16, 17
Dec 10	Chapters 18, 19, 20, 21, * cumulative

Your grade consists of a lab book, homework and the four test grades. Homework is worth 100 points. Your lab notebook is worth 150 points. The first three tests are worth 100 points each, and the final will count as 150 points. Your total points earned will be divided by 700 (the maximum number of points possible ) to give a numerical grade.

You need to be present for tests. Make-ups should be cleared before missing a test. The first three tests are worth 100 points each. Your last test is cumulative and is worth 150 points.

Your lab notebook should be the spiral type, preferably with squared paper. Data goes into it during the lab, and the report is written on the pages following. Your lab notebook is handed in at end of semester, and has the weight of 150 points, or equivalent to a test grade. Don’t put off writing things up until the end of semester! You won’t have time then, and something may not have been properly recorded.

Homework is handed in weekly and up to 100 points given on it. You can ask at any time about a homework problem, but give it a try before asking.

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My email address is <gink@austin.rr.com> You can often reach me at 478-8125. Office hours are a half-hour before class, Monday through Thursday.

CONCEPTUAL PHYSICS I PHYSICS 1405 section 002  
SYNONYM: 24443 4 credits instructor: David Potter Fall 2008

COURSE DESCRIPTION: A study of force, energy, momentum, and wave motion. This is the first half of the PHYS 1405/1406 sequence.

PREREQUISITES: Some exposure to general mathematics.

TEXT: *Hewitt, Conceptual Physics, 10th edition*  
OTHER: calculator

METHODOLOGY: Lecture/Lab

LECTURE: Mon/Wed at 2:50- 4:05 pm in RGC 331  
LAB: Mon/Wed at 4:15- 5:30 pm in RGC 326

OFFICE LOCATION: RGC 325.1  
PHONE NUMBER: 223- 3303  
E-MAIL ADDRESS: gink@austin.rr.com

OFFICE HOURS: Mon/Wed, from 2:00 pm- 2:30 pm  
Tue/ Thur, from 8:30 am- 9:00 am

APPOINTMENT HOURS: call or e-mail

This is a university calculus level physics course intended for majors in engineering, physics, chemistry, mathematics, computer science and other technical and scientific majors.

**OBJECTIVES:**

In the lecture, to get a slightly deeper acquaintance with some important ideas of physics, and to get some practice thinking as a physicist does.

In the lab, to see some physical ideas made real, and to get some exposure to laboratory equipment, as well as to get some exposure to technical writing and using graphs and charts.

GRADING SYSTEM: points earned are divided by 600 to get a class grade

Tests:	300 points
Final Exam:	150 points
Laboratories:	150 points
Homework:	100 points

In most classes, 89 up is an "A", 80-88 is a "B", 65-79 is a "C"  
Small variations from this will be fitted to individual classes.

**COURSE POLICIES:**

You are encouraged to attend. Too many absences can get you dropped. Withdrawals are generally up to student.

For incompletes, see incomplete rule in college catalog (This section in the catalog is 3 paragraphs long).

Scholastic Dishonesty: Acts prohibited by the college for which discipline may be administered include scholastic dishonesty, including but not limited to cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their thought, research or self-expression. Academic work is defined as, but not limited to tests, quizzes, whether taken electronically or on paper; projects, either individual or group; classroom presentations, and homework.

Academic Freedom: Students are free to disagree with instructors on matters of opinion or personal philosophy, and will incur no penalty from doing so. However, instructors will judge student work based upon its relation to the current state of mainstream scientific fact and theory. Students are allowed to voice opinions, concerns, complaints and suggestions to the instructor. However, it is up to the instructor to decide how to use the student's comments to meet the class's best interests.

Student Discipline: Matters of student discipline will be adjudicated by the instructor on a case-by-case basis, in conjunction with the Task Force Leader or Dean. Students may consult with the Office of Student Services or the Associate Dean at their campus on these matters.

Office with Student with Disabilities: Each ACC campus offers support services for students with documented physical or psychological disabilities. Students with disabilities must request reasonable accommodations through the Office for Students with Disabilities on the campus where they expect to take the majority of their classes. Students are encouraged to do this three weeks before the start of the semester.

COURSE OUTLINE/CALENDAR on separate page

TESTING CENTER POLICY: Physics tests may not be given in the testing center except for make up tests.

STUDENT SERVICES HANDOUT and INSTRUCTIONAL SERVICES HANDOUT: to be handed out to student by each instructor if student already does not have copy