

## PHYSICS 105 GENERAL INFO/SYLLABUS    Lecture: T & Th 10:45AM-12:10 CR137

Instructor: John Gerz

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- [TEXTBOOK](#) -- Click this link to download the course textbook as a PDF document. This textbook is provided to you free of charge, courtesy of [OpenStax College](#).
- The College Physics textbook is also available for [iOS](#) devices. iOS 5.1 and iBooks 3.0 or later are needed. The price is \$4.99. This is what I use.
- You need to purchase two items from the GCC Bookstore.
  - My HW is not text dependent because all HW and SI worksheets are available in my (John Gerz) P105 Lab Manual (~\$9). I will be referencing the workbook in EVERY lecture..
- The assignments for P105 are available on my website. Here is the assignment link.

### 1. PREREQUISITES

MATH 102, 110 or equivalent (Algebra and Trigonometry)

### 2. COURSEWORK

The primary goal for students in P105 is to master critical thinking, this is done by problem solving in lecture and lab. The mandatory topics covered include Vectors, Motion (1 & 2 dimensional), Forces, Energy, Momentum, Rotation, and Pressure. If time permits one of the following will also be presented: Elasticity, Wave Motion, Planetary Motion. The focus will be on Forces & Energy. These two subjects will take up about 9 weeks of the semester.

### 3. TESTS

- a. There will be 3 semester tests and the Final Exam
- b. The lowest semester test will be dropped from your total
- c. There will be no make-ups for missed test. If you miss a test that will be the one dropped
- d. There are bathroom breaks during tests, but the student must discard the given test, and begin a second exam. Full time will be allowed.
- e. A Scientific Calculator with Trig functions is necessary. Graphing calculators are permitted. Cell phones and other internet connected devices cannot be used on tests.

### 4. HOMEWORK & SUPPLEMENTAL INSTRUCTION.

- a. Each week you should put in 3 to 6 hours practice working HW problems. There is little or no possibility to pass this class without practice. Working together with other students on HW is permitted and encouraged.
- b. You will be provided with Supplemental Instruction workshops, scheduled on TTh from 12:30 to 13:30 (just before lab). Attending multiple sessions is encouraged, but not required. I am attempting to schedule a SI meeting before the Friday lab. I will keep you informed. SI leaders and I will help you with any questions you may have.
- c. To receive full credit for HW & SI you must attend workshops and turn in both assignments.
- d. SI sessions are NOT times to finish your lab assignments. Use this time to do the SI & HW problems.

## 5. ATTENDANCE

- Attendance the first three weeks will be heavily scrutinized, as there are so many students that wish to add.
- Students with unexcused absences of more than 10 hours may be dropped from the course.
- Please do not call me when you are absent (unless absence is over 4 class sessions). email is fine.
- Excessive tardies will not be tolerated. PLEASE BE ADVISED: POINTS WILL BE DEDUCTED!

## 6. LABS

Ultimately, laboratory work is more important than how it affects your overall physics grade.

Let me explain. During lab you will be:

setting up equipment

making measurements

recording data

analyzing data

reporting your findings and submitting them to the lab instructor

As an engineer, scientist, or health care provider your job will be:

Physical Science	Health Science
Propose method to satisfy contract with client	acknowledge prescription from physician
Manage the setup of equipment	develop physical/neurological tests for patient
Make measurements, record data	same
Analyze data	diagnose patient
Determine if method is sufficient or needs to be modified	same
Report your findings to your superior or client	daily charting for physician/insurance
Repeat if necessary	same

*Take the lab-work seriously, your job will depend on it.*

TWTh 13:50-17:00PM. One lab report per group of two or three. If there is a group of 4, there must be at least two lab reports submitted (consult with your lab instructor for further information). All labs must be performed by all students, whether they have taken the class before or not.

## 7. GRADE POLICY

- TEST GRADES: 90 to 100 = A; 79 to 89 = B; 65 to 79 = C; 50 to 65 = D; 49 and less = F.
- FINAL EXAM: All students MUST take the FINAL EXAM or will receive an F in course. All student must receive a 50% or better on the final.
- GRADE COMPUTATION: The Final Grade is computed by the following:  
Final Exam: 170 points; Semester Tests: 110 pts each; Lab 100 pts; Homework 5 pts; SI: 5 pts

8. STUDENT CONDUCT: ZERO TOLERANCE for all discipline violations.
  - a. **Cheating will be dealt with as severely as the College policy allows.**
  - b. Please turn off cell phones and similar devices before the class.
  - c. No texting during lecture or lab. PLEASE BE ADVISED: POINTS WILL BE DEDUCTED!
  - d. Disrespectful behavior including talking during lecture or lab **will not be tolerated**
9. ADDING OF STUDENTS: Students will be added by the GCC guidelines.
10. LAST DAY TO DROP without a "W": Sat, Sept 9<sup>th</sup>;  
DEADLINE to WITHDRAW with a "W": Sat, Nov 18<sup>th</sup>;
11. FINAL EXAM: Scheduled: Thurs Dec 7<sup>th</sup>, 1:50-14:10,  
Preferred: Wed Dec 13, Noon to 3PM