OBJECTIVE: Students will learn basic concepts and elementary problem solving techniques in a broad spectrum of physics topics including mechanics, properties of matter, thermodynamics, sound, electricity and magnetism, light, and atomic structure.

INSTRUCTOR: Rob Chavez
Thornton 314 415-405-0995
rchavez2@sfsu.edu (Note the ‘2’ in the address.)

E-MAIL AS PRIMARY CONTACT: Please use email rather than phone except during office hours. Please start the subject in your e-mail message with "PHYSICS 101".

OFFICE HOURS: MW 11:10 am - 11:45 am in TH 314 and by appointment

HELP SESSIONS: (Day and time to be determined)
The TA’s will also have help sessions (time and location to be determined)

You are encouraged to attend a help session if you have questions about how to do problems.

PREREQUISITES: High school algebra and a score of 50 or above on the entry level mathematics exam (ELM)

REQUIRED TEXT: Conceptual Physics (10th ed.) by Paul Hewitt (Addison-Wesley)
It is neither helpful nor possible to cover all the relevant information in lecture. Students are required to read the text and are responsible for all the information in the assigned reading in the schedule. This leaves more time for examples, questions and demonstrations.

WEB ASSIGN: This is an on-line grading system for which you must purchase an access code either “bundled” with the text book or on-line for about $25 with a credit card. WebAssign can be accessed at www.webassign.net. If you drop this class, a refund can be requested within 14 days of the on-line purchase date. See below for additional information on WebAssign.

WEB SITE: All course materials will be posted at www.webassign.net under the class heading “Physics 101 Spring 2010”. One of the earliest posts will be a tutorial on how to submit homework on WebAssign. Please check frequently for new postings.

IMPORTANT DATES:

February 5: Last add or drop without a "W" grade
February 19: Last day to request "CR/NC" grade
Feb 17, 19, 22: Furlough days
March 29 – April 3: Spring Break
April 23: Last day to drop with a "W" grade; Furlough day
May 13: Last day to turn in any work

Final Exam: Friday May 21 8:00 – 10:30 AM

GRADING: Course grades will be based on points earned, with each category of work weighted as follows:

Midterms (2)........................................50%
Final..................................................25%
Homework & quizzes.........................25%
 Assigned grade will be roughly based on the following percentages:
100 – 90% A, 89 – 80% B, 79-70% C, 69 – 60% D, Below 60% F

LECTURES: Students are expected to attend ALL lectures. I suggest exchanging contact information with a fellow student so you can stay informed if you are forced to miss a class.

A brief lecture schedule is included below. Lectures will discuss selected portions of the textbook, provide supplemental material, and present sample calculations. Relevant questions are welcome during the lectures. Longer discussions of topics will be deferred to scheduled office hours and help sessions.

LABORATORY: Students may take the lecture without taking the lab. However, you may NOT take the lab without taking the lecture. If you drop the lecture you must also drop the lab or you will not pass.

TEACHING METHODS: This class will be taught using reading assignments, lecture, and Demonstrations.

HOMEWORK: Problem sets will be posted weekly on WebAssign and will typically be due according the schedule below. Once the deadline passes, WebAssign will NOT accept answers! Usually you will be allowed only one attempt to submit an answer to a multiple choice question. However, if a question requires a numeric answer, you may make multiple submissions so that you can figure out what you are doing wrong and then work to correct your calculation.

Students may discuss with each other general approaches to the problems, but each student should work out the detailed solutions by him/herself without using solutions obtained from any other source.

EXAMINATIONS: There will be two midterms and a final exam. See the class schedule for chapters covered and dates. Each midterm exam will be taken in-class, closed book and closed notes. A formula sheet will be provided by the instructor. You must bring a scantron form 882-E to each exam. You may use a “scientific” calculator during the exams, but you may NOT use a cell phone calculator, PDA, etc.

NO make-up exams will be given except for extreme and documented reasons.

FINAL EXAM: Friday, 21 May 2010, 8:00 AM – 10:30 AM in SCI 101
The final exam will be taken in-class, closed book and closed notes. A formula sheet will be provided by the instructor. See above concerning calculators, etc.

STUDENT CONDUCT: I intend to create a class environment that is conducive to learning, enjoyable and safe. Towards this end, mutual respect and courtesy are essential. Be respectful of others, only one person talks at a time, turn off your cell-phone during class. No sleeping in class please. Please be on time for class.

Any form of cheating will be dealt with severely per college procedures. If you are struggling with the course, please contact me before you feel tempted to cheat.

ACCOMODATIONS: Students with disabilities who need reasonable accommodations are encouraged to contact the instructor. The Disability Programs and Resource Center (DPRC) is available to facilitate the reasonable accommodations process. The DPRC is located in the Student Service Building and can be reached by telephone (voice/TTY 415-338-2472) or by email (dprc@sfsu.edu).

If you need an accommodation due to a religious observance please contact the instructor.

IMPACTED CLASS: This class has far more people wishing to take it than space. Therefore special rules apply before being allowed to drop this class. See [http://www.physics.sfsu.edu/policy/withdrawal.pdf](http://www.physics.sfsu.edu/policy/withdrawal.pdf) for details. If you do drop this class, please email immediately so I can let someone have your spot.
WEB ASSIGN LOG-IN: If you have had a WebAssign account at SFSU in the past, continue to use your existing username and password. If you have forgotten your password email me to request I reset it for you. If you have never had a WebAssign account at SFSU, we will construct a username and password for you. Your username is your last name in lower case letters spelled exactly as it appears on the class roster plus the last four digits of your SFSU I.D. number. If you have a space or a dash in your last name, it is omitted in the user name. Your initial password is the last four digits of your SFSU I.D. number, but leading zeroes may be dropped. You may have to try it both ways.

Example:
If your name and SFSU I.D. are: Minerva Smith-Gomez, 543210987, you log in this way:
Username: smithgomez0987
Institution: sfsu
Initial password: 0987 or 987
Use “Change Options” to change your password after your first log-in and to change the e-mail address to the one that you prefer so that WebAssign can e-mail your password to you if you forget it. Please be sure that your SFSU e-mail account forwards mail to your preferred e-mail address because mass e-mailing to all of the students in this very large class is done via the SFSU registration system.

If you dispute the answer or score to a question, please bring it to my attention within 7 days of the due date or I will be unable to investigate the matter. See sections ‘Student Conduct’ and ‘Homework’ above.

CLASS SCHEDULE: See next page.
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<td>&lt;Intro/Syllabus&gt;</td>
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Final Exam Friday May 21 8:00 AM – 10:30 AM E & M, Motion I & II, Gravity

Sound: Ch 19, 20  
Light: Ch 26, 27, 28  
Matter: Ch 13, 14  
Heat: Ch 15, 16, 17, 18  
E&M: Ch 22, 23, 24, 25  
Motion I: Ch 2, 3, 4  
Motion II: Ch 5, 6, 7  
Rotation: Ch 8  
Gravity: Ch 9, 10