Lecture: Phys 121-01, 10:10-12:00pm, MTWR  
Instructor: Fernsler  
Office Hours: MTW noon-1pm, or by arrangement. 
Feel free to stop by- if I’m busy we’ll schedule another time.  
Instructor Webpage: http://www.calpoly.edu/~jfernsle/  
All current handouts, schedules, etc. will be available here.

Bldg. 53 Room 201  
Office: Bldg. 25 Room 224  
Email: jfernsle@calpoly.edu  
(note that there is no “r” before “@” in the email address)

Materials:  
• College Physics: A Strategic Approach, by Knight, Jones and Field Pearson (El Corral)  
• Mastering Physics Access Code for online homework (El Corral or online at masteringphysics.com)  
• Scientific calculator (trigonometric functions, scientific notation, etc.)

Course goals:  
• Improve your conceptual understanding of motion, force, momentum, and energy.  
• Develop your skills in representing and predicting phenomena in the physical world.

Class time and assignments: There are assigned readings and workbook exercises for each class day. There will be little lecturing so your main source of information is the text. You are to read the appropriate sections in the textbook prior to each class meeting. During class time there will be interactive lecture demonstrations, and individual/group work focusing on workbook questions, problem solving, and other activities.

GRADING (approximate letter grades and percentages for each category)

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<th>Homework</th>
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Regular class attendance is expected.

Groups: You will be assigned to several groups during the quarter. Please sit with your group in the classroom and work together to complete workbook and problem activities.

Online Homework: Some homework will be done on-line using the Mastering Physics system at www.masteringphysics.com. The problems are listed on the class schedule and are listed on-line. They are from the book, but you will turn them in on-line. Use your access code (purchased with your book or directly on the website) to register for my class. The class ID is: MPFERNLSRSU13121

Some of the problems will have randomly generated numbers. In this situation it is helpful to solve the problem symbolically, rather than immediately plugging numbers. I recommend that you first solve the problems symbolically. Substitute the numbers from the book and see if they give the answer at the back of the book. Then you can substitute the on-line numbers.

Computers can be frustrating. Don’t let it be. Spend a reasonable amount of time. If things are not working, send me an email. We can clean up the details later. However, the problems are from the back of your book, so you should still be able to do the problems and enter the answers later.

Quizzes: There will be quiz each week, except when there is an exam. The quizzes will be conceptual in nature and will require explanations. There will be limited time for the quiz, ten minutes at most. Come prepared to write.

In-class Exams: There will be one midterm and one final exam during the quarter. Exams will be closed book and notes, but you will be supplied with a formula sheet.