Syllabus

Course: PHYS 100 5:25 – 6:40 pm  Tu Th  Darwin Hall 107
Instructor: Dr. So Young Han
Contact Information: E-mail: hanso@sonoma.edu, Darwin 300B, Tel.:664-3242
Office Hours: Tu Th 4 – 5 pm or by appointment

Course Description
A survey course designed to provide an introduction to the concepts and principles of physics for non-science majors. The topics covered include mechanics, thermodynamics, electricity and magnetism. Not recommended for B.S. students. Satisfies GE, category B1 or B3.

Prerequisite: There is no prerequisite. You will solve problems with basic trigonometry and algebra.

Course Objective
The expected outcomes from this course are

1. Students should understand and be able to demonstrate their understanding of the principles and concepts introduced.
2. Students develop logical thinking processes which are essential in science.
3. Students will develop cognitive understanding of science concepts through in-class demonstrations and exercises.
4. Students will discuss in peer groups to develop their cooperative skills and reinforce understanding of concepts.

Accommodations for Students with Disabilities
If you need disability related accommodations for this class, such as a note taker, test taking services, special furniture, use of service animal, etc., please contact the office of Disabled Student Services (DSS) located in Salazar Hall, Room 1049, Tel: 664-2677

There are important University policies that you should be aware of, such as the add/drop policy; cheating and plagiarism policy, grade appeal procedures; accommodations for students with disabilities and the diversity vision statement. (Go to this URL to find them: http://www.sonoma.edu/uaaffairs/policies/studentinfo.shtml)
Outline

Attendance: Attendance is mandatory. In case of an absence, the student is responsible for the learning experience and missing assignments made during his/her absence.

Materials to bring: Class Notes in a folder, Calculator

Grade: Best 2 of 3 Exams 40%
Quiz 10%
Homework 10%
Class participation 10%
15 min presentation and a report 15%
Final 15%

Grade Scale: A [89 above], B+ [88-86], B [85-83], B- [82-79], C+ [78-76], C [75-73], C- [72-69], D [68-60], F [Below 60]

Reading Assignment: Reading textbook is required before and after classes.

* Grades are based on an absolute scale, not a curve.

* Exam

No Make-up Exam/Quiz will be given.
5 minute pop quizzes will be given without announcement.
You can drop one exam and one quiz.
If you have above 90% average in exams before the final, you may be excused from the final and the final exam grade will be recorded as 90%.

* Homework

Each homework assignment will be posted at www.sonoma.edu/users/h/hanso/.
On the homework due-date, there will be a quiz out of the homework problems.
You may submit a late homework no later than 1 week after the due. There is a 20% deduction in the late homework scores.
Write homework questions and show your works. Draw a box around the final answer.

* Class Participation

In Class Hands-on practices
Each group presents a 15-minute presentation and a report.
each absence counts -1 point. (The attendance will be checked randomly.)
Each group presents a 15-minute presentation and a report.
**Tentative Schedule**

**Introduction:** *Let’s start our A, B, C’s in Physics!*

(Space Perception, SI units, Density)  
Chap.1, Appendix A  
**Hands-On Practice 1**

**Linear motion:** *A guy in a Corvette* (Motion)  
Chap. 3

**Force:** *the driver of linear motion*  
(Force and Newton’s Laws of Motion)  
Chap. 2, 4, 5

**Gravity:** *Man, Earth, Star and Galaxy*  
Chap. 9, 10

**Conservation Laws:** *Energy, Momentum and Angular momentum*  
Chap. 6, 7, 8  
**Hands-On Practice 2**

**Thermodynamics:** *To make the perfect pasta*  
(T, Specific Heat, Thermal Expansion, Heat transfer, Thermodynamic laws)  
Chap.15 – 18  
**Hands-On Practice 3**

**Electricity and Magnetism:** *Two sides of a Mirror*  
(Static Electricity, Current Electricity, Magnetism, Electromagnetic Induction)  
Chap.22 – 25

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**Final Exam:** (May 19 Tuesday 5 – 6:50 pm)