SJSU Physics and Astronomy Department

PHYS 2B – Fundamentals of Physics

Instructor: Farzad Taiedi

Time and location: Phys 2B Sec 02
Tue, Thr 12:00-1:15 pm (SCI 258)

Office Hours:
F 12:30 – 2:30 pm (SCI 240)
And by appointment (SCI 240)

Class Homepage:
http://www.sites.google.com/site/sjuphysicstaidly/

Email and Phone:
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Course Description: This course is the second semester in the algebra-based introductory physics for biology, premedical, technical and liberal arts majors. It covers electricity, magnetism, simple circuits, lenses, mirrors, wave optics, atomic physics and nuclear physics.

Prerequisite: PHYS 2A with grade “C” or higher & Algebra.

Text: College Physics, 10th ed., Serway, Faughn & Vuille (Thomson), Ch 15 to 29, not all sections will be covered.

Assignments: Students are required to register online to access the homework website: www.webassign.net and do homework online. I encourage you to form small groups for discussing the materials presented in the class, in the book and the homework. Try to explain to each other; explaining to others is the best way to clarify your understanding. However, do not split the work load; the final homework, solutions and their entries should be done individually. Make sure you don’t fall behind the lectures by attempting all the homework problems and submitting it before the due date. It is strongly recommended that students go through the following steps before attempting the homework problems:

Study the lecture notes and the relevant chapter of the textbook.

Study problems that are worked out in the lecture and those in the textbook, noting the goal and strategy used.

You will have an access code in a package in your book if you bought it new. If you buy the book used, you will have to purchase access to the online homework separately. Follow the instructions inside the WebAssign Student Access Code package for online registration. For this you need:

• Your personal access code, which is inside your package.

• A valid email address.

• The class key ID, which can be obtained from instructor.
Class Participation: Participating in study group discussions with subsequent quizzes is strongly recommended. The exams will partly consist of questions and concepts that we have discussed in the class as well as from the homework. Participation in the quizzes is very important; quizzes are weighted as 40% of the final grade. Note that there is no possibility to retake quizzes.

Examinations: There will be two midterms and a final comprehensive examination. The midterms will be on the chapters indicated on the course schedule and the final will cover everything up through the last chapter. All exams will be closed book, closed note, except for a formula sheet prepared and provided by instructor. Each exam will have 4-6 problems and can include multiple-choice questions. A guide on how to present your solution to a problem in comprehensive exams as well as hints on solutions to selected homework problems can be found at [http://www.sites.google.com/site/sjsuphysicstaidy/](http://www.sites.google.com/site/sjsuphysicstaidy/). Your test and quiz grades, normalized grades histogram, course syllabus, University calendar, tutorial schedule, sample quizzes, Dropping and Adding sites information and more will be posted on this site. Monitoring this site regularly is strongly recommended.

Lab: Each student must enroll in one section of the Physics 2B Laboratory. The lab grade will be based on your lab reports and lab quizzes. You MUST pass the Laboratory to pass this course even though the lab grade only counts 10% of the total grade here.

Grading: quizzes 40%, Lab 10%, Homework 10%, two mid-terms each 10%, final 20%.

Final Letter grades will be assigned according to the following percentage of maximum points earned as long as you pass the Laboratory section as well.

- A, A, A+ >85% or above
- B, B, B+ >70 - 85%
- C, C, C+ >55 - 70%
- D, D, D+ >40 - 55%
- F below 40%

Academic Integrity Statement: From the Office of Student Conduct and Ethical Development; "your own commitment to learning, as evidenced by your enrollment at San Jose State University's Academic Integrity Policy, requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the Office of Student Conduct and Ethical Development." The policy on academic integrity can be found at [http://sa.sjsu.edu/student_conduct](http://sa.sjsu.edu/student_conduct).

Honor Code: "I have read the Honor Code and agree with its provisions. My continued enrollment in this course constitutes full acceptance of this code. I will NOT:

1. Take an exam in place of someone else, or have someone else take an exam in my place
2. Give information or receive information from another person during an exam
3. Use more reference material during an exam than is allowed by the instructor, continued on my website
4. Obtain a copy of an exam prior to the time it is given
5. Alter an exam after it has been graded and then return it to the instructor for re-grading
6. Leave the exam room without returning the exam to the instructor.”

Disabilities: If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities register with the Disabilities Resource Center (DRC) to establish a record of their disability.

College & Departmental Policies: You are responsible for understanding the policies and procedures about add/drops, academic renewal, withdrawals, incompletes, classroom behavior and other policies described in the catalog. Please read your catalog thoroughly.

Attendance and Participation: Students are expected to attend all meetings for the courses in which they are enrolled as they are responsible for material discussed therein, and active participation is frequently essential to ensure maximum benefit to all class members. In some cases, attendance is fundamental to course objectives; for example, students may be required to interact with others in the class. Attendance is the responsibility of the student.