Time and Location: TTh 1:30pm-2:45pm in SCI 253
Instructor Information: Name: Maxine Rose Shao (Maxine)
Office: SCI 324, Phone: (408) 924-5724 (answered during office hours only)
Office Hours: MW 4:00pm-4:30pm, T 1:00pm-1:30pm and 2:45pm-3:15pm.
Email: maxine.shao@sjsu.edu

Prerequisites: There are no prerequisites for Elementary Physics; therefore I will assume that you have little to no prior knowledge of physics. But, I expect that you are, or will learn to think analytically, since rote memorization will neither help you understand physics, nor solve physics problems.

Course Description: This general education course will cover topics in Mechanics, the different forms of energy, Gravity, the Atomic Nature of Matter, Properties of Materials, Heat, Electromagnetics, and Radioactivity. Emphasis will be placed on practical applications of physics principles to contemporary problems.

Textbook: Conceptual Physics (12th Ed.) by P.G. Hewitt
Supplies: A scientific calculator, four 882-E Scantron forms, pencils, and notebook paper.

Student Learning Objectives (SLO): Upon successful completion of this course students will be able to:
(SLO1) Use the scientific method to examine existing, or preexisting, explanations about the natural world. Through class discussions on how the scientific method is used to develop natural laws, and through applicable homework assignments this objective is satisfied. (SLO2) Understand the effect of scientific advancement on society. Students accomplish this objective through classroom discussions, and written assignments. (SLO3) Students will apply quantitative and analytical reasoning techniques while solving group questions in class, and in the assigned written homework.

Graded Course Work:

<table>
<thead>
<tr>
<th>Writing assignment 1</th>
<th>15</th>
<th>Thursday February 25th</th>
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<tbody>
<tr>
<td>Writing assignment 2</td>
<td>15</td>
<td>Thursday March 24th</td>
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<tr>
<td>Writing assignment 3</td>
<td>15</td>
<td>Thursday May 5th</td>
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<tr>
<td>Group questions</td>
<td>10</td>
<td>Announced in class</td>
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<tr>
<td>1st exam</td>
<td>15</td>
<td>Tuesday March 1st</td>
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<tr>
<td>2nd exam</td>
<td>15</td>
<td>Tuesday April 5th</td>
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<tr>
<td>3rd exam</td>
<td>15</td>
<td>Tuesday May 10th</td>
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<tr>
<td>4th exam (Cumulative final)</td>
<td>15</td>
<td>Wednesday May 18th from 12:15pm-1:30pm</td>
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<td>The lowest of the four exams scores will be dropped.</td>
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<td>Total points</td>
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Grades: A+: 95 points, A: 92 points, A-: 89 points, B+: 86 points, B: 83 points, B-: 80 points, C+: 75 points, C: 70 points, C-: 60 points, D: 50 points, F: below 50 points.

Reading: You are assigned reading of the relevant concepts before I cover the material in lecture. Refer to the Lecture schedule on the following page for the chapters to be read prior to attending lecture.

Written homework: This general education class requires you to turn in a minimum of 1500 written words, meaning at least 500 words per each of the three written assignments. Your assignments will be graded on correct answers, completeness, and grammar. Your written homework must be typed, printed out, and handed in at the beginning of class on the due date. Late or emailed homework will be accepted for 50% credit.
Plagiarism in your written homework:

1. If one or more students submit nearly identical homework, then zero credit will be given to those students for that assignment.
2. Any other type of plagiarized answer will result in zero points for the entire written assignment. You should read everything you can to help you understand the physics, but answers to homework questions must be written in your own words.


Tutoring: http://peerconnections.sjsu.edu/, or call 924-2587.

Group Questions: There will be questions that are worked on in a group. I will assign the groups. If for any reason you are absent when a group question is given, then you cannot get credit for the given group question.

Exams: The four multiple-choice exams cover the lecture material, group questions, class demonstrations, written homework, and the assigned reading material. You can bring a standard calculator and one double-sided 8.5"x 11" page of notes to each of the first three exams. **No make-up exams.**

Final: The final is a cumulative multiple-choice test. You will be allowed a calculator and three double-sided 8.5"x 11" pages of notes for the final. **No make-up final.**

No Extra Credit: The only way to receive credit in this class is by doing homework, taking the exams and being present to do the group questions.

Classroom Protocol: In the best interests of all.

1. No laptops, smartphones, or any electronic device, except a standard calculator, can be used in class except during group questions and on homework question days.

2. No classroom conversations unrelated to the material being discussed after 1:30pm and before class ends.

Comments: To succeed in this course, attend class consistently and take careful notes. Read each chapter before it is discussed in class, and then read it again. Complete all assignments and turn them in on time. If you don’t understand something said during lecture, or read in your text, PLEASE ask me during class. Study groups are incredibly helpful since you will have a chance to explain what you are learning to someone else. Your group partners would be the first place to look to find someone to study with. If you need help with the material visit me during my office hours, or email me and I will get back to you promptly.

University Policies:

Academic Integrity Statement: "Your own commitment to learning, as evidenced by your enrollment at San Jose State University, and the 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. Please read the student conduct code, which is on page: http://www.sjsu.edu/studentconduct/

Campus policy in compliance with the Americans with Disabilities Act: "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 requesting accommodations must register with DRC to establish a record of their disability."