PHYSICS 2B-3 Fall 2015

FUNDAMENTALS OF PHYSICS: E&M, OPTICS & ATOMIC STRUCTURE

**Instructor:** Dr. IRINA BERMAN

**Office:** Room: Sci. 312

 Tel: (408) 924 5268

 E-mail: irina.berman@sjsu.edu

**Class hours:** Room: SCI 253

 M, W,F: 12.30PM-1.20PM

**Office hours:** M, W: 11.30AM-12.20PM

 T, R: 2PM-2.50PM

 Additional hours can be requested

**Required Textbooks** *CollegePhysics* ,Serway&Vuille ,

 V2, 10thedition;

**Prerequisites:** Algebra, Physics 2A

**General remarks**: Physics 2B is the second semester of a one year introductory course in Physics for students having an algebra background. In is designed for Biology, Premedical, Technical, and Liberal Arts majors. It will cover Electricity, Magnetism, Circuits, Lenses, Mirrors, Wave Optics, Atomic Physics, and Nuclear Physics.

**Learning objectives**: After completion of the course students should understand the basic concepts of the topic covered. Students should be able to solve physics problems similar to those in the homework assignments.

**Homework**: Due as indicated on the assignment sheet. **Students are required to register online to access the homework website www.WebAssign.net, and do homework online**. If you buy a new book, it comes with a package called “WebAssignPasscard”. At [**CengageBrain.com**](http://www.cengagebrain.com/shop/index.html?channel=Eloqua&elq_mid=330&elq_cid=&cid=D2SC&elq=7b20c9d8b85945feac0a443e170159d7), students will have the option to rent their textbooks, purchase print textbooks, e-textbooks, or individual e-chapters and audio books. To register, students are required

* Your personal Access Code, contained in the WebAssignPasscard
* The Class key: sjsu 50968174
* The institution: sjsu

For each problem students are allowed 10 submissions. The requests for extension must be sent via my e-mail, not via the webassign. 3 extensions are allowed. If the homework is done after the due date within 2 weeks period, the grade for the homework decreases to 50% of the earned points . There is no possibility to do the homework 2 weeks after the due date.

**Laboratory:** Each student **must** enroll in one section of the Physics 2B Laboratory.  Students must pass the laboratory portion of the course in order to receive a passing grade in Physics 2B. To change the lab section you need to use the same registration procedure as for adding the lecture and the lab (via a website <http://www.physics.sjsu.edu/>).

**Exams:** There will be 2 midterms, and a final exam. There will also be 10-12 unannounced pop quizzes. The exams will include problems, based on the homework assignments and course material. For a midterm exam one one-sided page of formulas can be used. For the final exam one two-sided page (or two pages on one side) of formulas can be used. The copies of practice tests and exam solutions are not allowed during the exams!

**Makeup Exams**: Makeup tests are allowed only if a student has a written medical excuse or a serious reason for missing a test. The request to reschedule an exam must be done before or on the day of the exam.

**Some** course materials, practice exams, and the exams solutions will be posted on my Website, **http://www.sjsu.edu/people/irina.berman/**

 **Grading Method:** The homework will have 15%, lab-10%, midterms-40%, and the final exam-35%. The final grade will be based on the following scale (out of total 15+10+40+35=100):

 40 55 70 85 100

 F D- D D+ C- C C+ B- B B+ A- A A+

 **University Policies**

A. Academic Integrity Statement

“Your own commitment to learning, as evidenced by your enrollment at San JoseStateUniversity and the University’s Integrity Policy, require you to be honest in all your academic course work. Faculty members are required to report all infractions to the Office of Judicial Affairs.” The policy on academic integrity can be found at:

<http://sa.sjsu.edu/judicial_affairs/index.html>

B. 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 register with the AEC to establish a record of their disability.”

**College and Department Policies**

1. 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.
2. We will review the evacuation plan for this classroom during the first class meeting.
3. My office hours are for you. Please do not hesitate to come in and ask for help. Additional office hours can be scheduled at your request.

**Emergencies and Evacuations.** If you hear a continuous alarm, or are told to evacuate by Emergency Coordinator (colored badge identities), walk quickly to the nearest exit via stairways (at the end of each hall). **DO NOT USE AN ELEVATOR**. Take your personal belongings with you. Follow instructions of Emergency Coordinator. Once outside, move away from the building. Do not return to the building unless the Police or Emergency coordinator announce that it is permissible.