

**S.K.Sinha**

**DEPARTMENT OF PHYSICS**

**WINTER 2009**

**Physics 2Bb  
Electricity and Magnetism**

**WEB SITE:**

<http://physics.ucsd.edu/students/courses/winter2009/managed/physics2bb/>

**INSTRUCTOR:**

Sunil K. Sinha  
Office: Mayer Hall Addition 4561  
Phone: x2-5537  
Web:<http://sinhagroup.ucsd.edu/>  
email: [ssinha@physics.ucsd.edu](mailto:ssinha@physics.ucsd.edu)  
Office Hours: Thursday, 2:00 p.m. – 3:00 p.m.

**COURSE COORDINATOR:**

Patti Hey  
118 Urey Hall Annex  
email: [plhey@ucsd.edu](mailto:plhey@ucsd.edu)

**TEACHING ASSISTANT:**

Diana Jeong  
email: [<diajeong@physics.ucsd.edu>](mailto:diajeong@physics.ucsd.edu)  
Office Hours: Wed. 3:00 – 4:00 PM

**COURSE SCHEDULE:** Lectures MWF 2:00 – 2:50 PM and Tue. 6:00 – 6:50 PM. All lectures will be in WLH 2005

Tue. evening lecture time will usually be given over to the weekly Quiz (see below) EXCEPT for week 1 (no Quiz) and week 3 (Quiz held on Fri. morning lecture hour instead). (See lecture, reading and homework schedule).

Final Exam (3 hrs ) 3/16/2009 3:00 – 6:00 PM Place: TBA

**DISCUSSION and PROBLEM SESSION:** Will be conducted by TA:  
Discussion Session on Wednesdays 6:00 PM – 6:50 PM in WLH 2005 and  
Problem Session on Thursdays from 7:00 PM - 8:50 PM in CENTR 216.

**TEXTBOOK:** Physics for Scientists and Engineers, Wolfson & Pasachoff, 3rd Edition, Addison-Wesley

**MATH NEEDED FOR THIS COURSE:** You will need to know differentiation and integration; the concepts of line, surface and volume integrals; trigonometry and the use of various trigonometric identities; vectors and vector dot products and cross products. If you are not familiar with these, you should consider dropping the course.

**PHONES, WATCHES, PAGERS:** Please turn off your cell phones, pagers, and respect your fellow students enough not to engage in conversations on the phone or with your neighbors during class time. During quizzes /final exam all cell phones must be turned off.

**ELECTRONIC COMMUNICATION:** Please look at the course Web site frequently to check Announcements, etc.

E-mail is sanctioned by the University for official communications with students. Last minute news and notices will be emailed (and, as time permits, a copy posted on the “announcements” link of the course’s web site).

**QUIZZES:** Weekly closed-book quizzes will be given in accordance with the posted lecture, reading and homework schedule (normally every Tuesday evening lecture hour, but see exceptions above under Course Schedule). Quizzes will be multiple choice. Answer keys and solutions will be posted on the course web site.

1. You will be assigned a 3-digit Quiz ID number at the first Quiz. You will need this number to identify your work. Memorize it or write it down and bring it on quiz/exam day. Do not use your Student ID number.
2. You will have to provide your own scantron card, scantron form No. X101864-PAR (they can be green or red). These are sold at the bookstore. You will need a No.2 pencil to fill in the scantron card. No scantron card or no pencil, no credit for the quiz. You should write your Quiz ID number, course number and quarter on the space provided. Detailed instructions will be given by the proctor.
3. You must have a current, valid picture ID. Proctors will randomly check IDs to verify the name on scantron cards.
4. You may bring a calculator to the quiz (but not a laptop computer). You may bring cheat-card: must be a 5” — 8” (maximum size) handwritten card (both sides OK). You may bring a couple of pieces of blank paper on which

to work out the problems.

5. Recorded grades will be posted by “Quiz ID” on the course web site.
6. Any appeal to the grading of quizzes should be made in writing to the teaching assistant, within one week of the posting of the grades for that quiz. You must provide a written explanation as to why you are appealing the grade (be specific).
7. Your overall quiz grades will be computed from the best 6 of the 8 quizzes and will count 60% towards the final grade. Two of the quizzes can therefore be used for absences without penalty. Therefore there will be no make-up quizzes. If you anticipate missing more than two quizzes due to unavoidable circumstances you should consider dropping the course.
8. Use of cell phones or any devices that connect wirelessly to the internet during quizzes is strictly forbidden. Cell phones and wireless devices must remain off during the quiz.
9. Please be on time. Quizzes will not be handed out after any one student has completed his/her quiz and left.

**HOMEWORK:** Reading and suggested homework problems are assigned every week. (See lecture, reading and homework schedule). Homework is not graded, but are of the level you can expect for the quizzes and exam, and there is a strong correlation between quiz grades and completing the assigned homework. Attempting to do all homework problems, and even attempting others from the book, is thus strongly recommended. The TA will work through these problems during the Wed. evening problem discussion session. Solutions to the end of chapter problems can be found in the Student Solutions Manual.

**WHINING:** The course grade is determined by the formula above. Frivolous appeals will be penalized. However, if you are convinced your grade is incorrect you may submit a request, in writing, detailing why your grade should be adjusted. Appeals denied on the basis that there is no basis for the appeal (a.k.a. frivolous appeals) will be penalized by 5 percentage points (off the course grade). Appeals must be received by the course instructor no later than 24 hours after the corresponding quiz/final grades are posted on the web.

**GRADING:** Quizzes will count towards 60% of the overall course grade and the Final will count 40%

**ADDITIONAL HELP:** Night tutorials: Additional help can be obtained from Physics Department tutors, available every Sunday through Thursday,

3pm–8pm, at Mayer Hall 2106.

**WHOM TO SEE:**

- (i) Richard Hsu, rhsu@physics.ucsd.edu, 116 Urey Hall Annex, Physics Dept. Student Affairs Office, if you have any trouble using StudentLink/WebReg to add/change/drop, drop from wait-lists, have any questions about adding or dropping the course or to get appropriate authorization for such actions.
- (ii) The Teaching Assistant if you have questions relating to problem solving methods or grades received.
- (iii) The Instructor if you have basic questions about the subject matter, or if you have administrative problems.

**ACADEMIC DISHONESTY:** Please read the UCSD Policy on Integrity of Scholarship, in the section on Academic Regulations of the UCSD General Catalog. The summary states “Students: Complete the course in compliance with the instructor’s standards. Do not engage in any activity that involves attempting to receive a grade by means other than honest effort. Complete all academic work assigned, without unauthorized aid of any kind.”

These rules will be rigidly enforced. For all quizzes/exams cheating includes, among others: submitting another person’s work as your own for grade consideration, any alteration for reconsideration, copying from another student, and the use of any unauthorized materials during the exam.