

## **Physics 471**

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**Textbook:** I encourage you to buy one more cheaply on line. Some are international edition, which means paperback (different ISBN, but be sure it's 4th edition).

Authors: Eugene Hecht  
Release: 2001-08-12  
Publisher: Addison Wesley  
Format: Hardcover 680 pages  
ISBN: 0805385665 ISBN 13: 9780805385663  
Edition: 4

**CID Numbers:** You must obtain a class ID number. If you did not receive your CID number by email before class starts, go to our website. If you forget it, please email me. You can check your scores online with your CID number.

**Preparing for class:** See "Learning Objectives", on the website. The "Concepts" section shows what I expect you to get out of the reading under "Concepts". Have a copy of that when you read. You might take quick notes on it, and expand them closer to the exams.

**Quizzes and class activities:** Several quiz and practice questions will be presented during each lecture. Quiz questions are designed to find out if you have done the reading and paid attention to what you've read. Correct answers are worth 10 points, incorrect 0 points

Practice questions are designed to have you discuss and try concepts and simple skills. Practice questions are worth 10 points if correct, and 8 points if incorrect.

These points will be recorded on a Quiz Record Sheet. You will submit your totals on a Quiz Reporting Form every eight weeks. I suggest you write your daily totals in another safe place so that you don't lose the information before it is recorded.

Quizzes and participation points cannot be made up. However you may "drop" your lowest day's worth in each approx. 8-week recording period by giving yourself full credit for that day.

**Homework:** There will be an assignment due almost every Tuesday and Thursday. It will be graded and returned by the following class period. An assignment can be resubmitted within one week of the first deadline to restore 50% of the points missed. Late homework is treated like a resubmission: 50% possible up to one week late, and 30% possible after that. All HW must be turned in by the last day of class. The lowest 2 homework scores will be dropped when computing the final grade.

Homework is turned into the slot for 471 on the 3rd floor under the windows in the east hallway toward the tutorial labs. There is a separate slot for resubmissions.

Homework must be legible, and all steps must be clear. If the grader has difficulty following your work you will lose points, even if you get the correct answer. All homework should be done symbolically as far as possible. When numerical results are required, please do not put numbers into equations until the end. Unless otherwise noted, numerical answers should be given three significant digits with standard SI (mks) units.

Some of the homework assignments will include a short walk-in lab exercise for hands-on experience with optics.

**Exams:** Rather than spacing exams by 5-7 weeks in a typical course, we will have short exams (1.5 hrs) about every 2 weeks and will skip one homework assignment that week. Exams run Thur – Sat during Testing Center hours. They are closed book. A formula sheet will be provided; it will be posted on the web before the exam. To review for the exam, go over the learning objectives posted for each day. From there go to lecture notes, and consult the text.

Review the homework. The TA will hold a help session to help answer questions even though there is no HW due that Thursday. The exam will be about half conceptual and half homework-like problems, and derivations listed. The exams should take no longer than 1 ½ hrs, but there will be no time limit.

The final will consist of problems and questions from the midterm exams, class activities and homework, derivations in the learning objectives, plus material studied since the last exam.

**Personal Choice Labs:** You will do three labs during the semester in which you choose the content to at least some degree. These are done in groups of two or three students. You will put a very simple lab report on the web for the rest of us to see. Some extra credit might be given if I'm impressed with the effort or creativity shown.

**Grading:** Your scores will be available online. Your letter grade will be determined from your total percentage, according to the breakdown below. The weights given to the various assignments are as follows:

30% Homework, 45% Exams, 10% Final, 5 % Personal Labs  
10 % quizzes and class participation.

A:	95	C:	65
A-:	90	C-:	60
B+:	85	D+:	55
B:	80	D:	50
B-:	75	D-:	45
C+:	70	E:	0

## University Policies

### Preventing Sexual Harassment

BYU's policy against sexual harassment extends not only to employees of the university but to students as well. If you encounter sexual harassment, gender-based discrimination, or other inappropriate behavior, please talk to your professor, contact the Equal Employment Office at 422-5895 or 367-5689, or contact the Honor Code Office at 422-2847.

### Students With Disabilities

BYU is committed to providing reasonable accommodation to qualified persons with disabilities. If you have any disability that may adversely affect your success in this course, please contact the University Accessibility Center at 422-2767. Services deemed appropriate will be coordinated with the student and instructor by that office.

### Honor code

The honor code can be found at [byu.edu](http://byu.edu). Of course we expect the highest standards of honesty and kindness in our class.

**Children in the Classroom**

The study of physics requires concentration and focus. Having small children in class is often a distraction that degrades the educational experience for the whole class. Please make other arrangements for child care rather than bringing children to class with you. If there are extenuating circumstances, please talk with your instructor in advance.