

Physics 211 Section 1

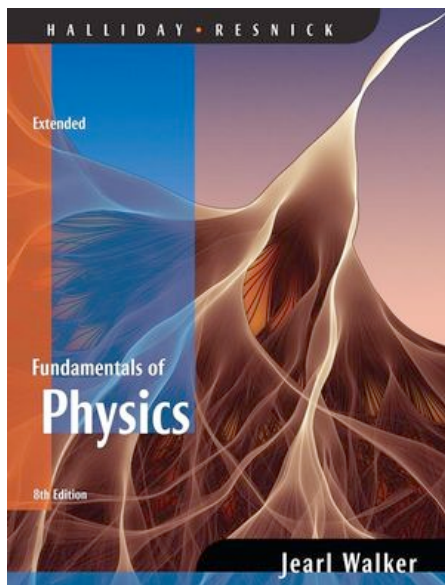
Rob Kroeger x7921

Class Time: 2:00 PM WMF Lewis 101

Office Hours: 11:00 A.M. - 11:50 Mon., Wed., Fri.

Location of my office: Lewis 206

Textbook: *Fundamentals of Physics 8th Edition* Halliday, Resnick and Walker



Content of the course:

We will cover material from the textbook as follows:

- Chapter 1: Measurement
- Chapter 2: Kinematics in 1-D
- Chapter 3: Vectors
- Chapter 4: Motion in 2-D and 3-D
- Chapter 5: Newton's Laws of Motion
- Chapter 6: Newton's Laws cont.
- Chapter 7: Work & Energy
- Chapter 8: Potential Energy & Conservation of Energy
- Chapter 9: Momentum & Collisions
- Chapter 10: Rigid Rotation
- Chapter 11: Angular Momentum
- Chapter 12: Equilibrium, Elasticity
- Chapter 13: Gravitation
- Chapter 14: Fluid Mechanics
- Chapter 15: Oscillatory Motion
- Chapter 16: Waves
- Chapter 17: Sound

Learning Objectives

After completing this course, the student should understand the role of forces and inertia in the solving of problems in mechanics. The student will know how apply these concepts through the analytical tools of calculus, vector algebra, and trigonometry to solve physical problems. These skills will be acquired through the lecture, reading of the assigned textbook, and through working the assigned homework problems. The course should enhance the student's capacity for analytical reasoning and problem solving.

Course Credit and Grading Scale

Nearly all of the course credit will be based on the student's demonstrated ability to solve physical problems in the realm of mechanics through the tests and homework. A fraction of the credit will be assigned through conceptual quizzes, either written or using the PRS clickers.

Breakdown of credit for the course:

20% Homework & Quizzes
55% 5 or 6 Tests
25% Final Exam

An overall course average of the following percentages will guarantee the corresponding letter grade:

90%	A
80%	B
70%	C
60%	D

Do Not ask to the final exam at a separate time from the class, except in case you have two other final exams on the same day. **Your final exam will be Friday December 7th at Noon. You must make your travel plans accordingly.**

Do Not ask to take any test at a separate time from the class. If any emergency arises on the day of a test, make sure you have documentation to support your request for a retake (e.g. a letter from the attending physician etc.) In general **I will not drop any test scores. Don't miss a test!**

Late homework won't be accepted, but you will have five dropped homework assignments in the course of the term. These are intended to cover all cases of lost or forgotten homework, brief absences, etc. If you joined the class late or in the case of extended absences (more than a week) we can make some adjustment. Problem sets must be turned in at the beginning of class on the day they are due. Please **don't slide homework under my office door**. Don't turn in homework with ragged edges (spiral paper). Don't use legal size paper or red ink. Please staple the pages together and don't fold them. Please **include the problem set number with your homework**.

IMPORTANT!! Please keep all tests and homework.

In the preparation of your homework, the use of **any** solution manual except the Students' Solution Manual (available from the bookstore) constitutes academic dishonesty. Any attempt to obtain, use, or circulate the Instructor's Solution Manual for this textbook (even if it is posted on a website) is specifically forbidden.

In the preparation of your homework, the use of any peer website (like Cramster) that has solutions to problems in Halliday and Resnick is forbidden, with the exception of the one associated with the text:

<http://www.wiley.com/college/halliday>

Allowing someone else to submit answers on the Personal Response System using your clicker is specifically forbidden, as is submitting answers on someone else's behalf.

You **must** also register for **Physics 221** unless you have specific permission to do otherwise, or have previously taken Physics 221.