

**PHYSICS 2514
Fall 2001**

Professor:

Dr. Patrick Skubic

Office: NH room 309, **Phone: 325-3961** ext 36309

Office Hours TR 3:00-4:00 PM or by appointment

web address: <http://www.nhn.ou.edu/~pls/>

web-course address: <http://www.webct.ou.edu/>

TA's: Shankar, Wei Luo; **Grader:** Edirisooriya

Textbook: Douglas C. Giancoli;

~~Physics for Scientists & Engineers (3d Edition)~~

Tentative Schedule:

DATE	TOPIC	CHAPTER
------	-------	---------

1	Introduction, Measurement, Estimating	
---	---------------------------------------	--

2	Motion in One Dimension	
---	-------------------------	--

3	Motion in Two Dimensions, Vectors	
---	-----------------------------------	--

Exam 1

4	Newton's Laws of Motion	
---	-------------------------	--

5	Applications of Newton's Laws	
---	-------------------------------	--

6	Gravitation	
---	-------------	--

7	Work and Energy	
---	-----------------	--

8	Conservation of Energy	
---	------------------------	--

Exam 2

9	Linear Momentum and Collisions	
---	--------------------------------	--

10	Rotational Motion about a Fixed Axis	
----	--------------------------------------	--

11	General Rotation	
----	------------------	--

12	Static Equilibrium; Elasticity and Fracture	
----	---	--

Exam 3

13	Fluids	
----	--------	--

14	Oscillations	
----	--------------	--

15	Wave Motion	
----	-------------	--

16	Sound	
----	-------	--

FINAL EXAM (4:30 PM - 6:30 PM)

Tuesday, Dec. 11

Our responsibilities will be to provide an atmosphere for learning the material and we hope to provide some motivation. You are responsible for all material given in the class lectures and in the book whether it is covered in lecture or not. There may be some material in the lectures that is not in the book (Yes, you are responsible for learning this material). We really hope that you enjoy this course. Because this is a problem solving course it may be difficult and time consuming but we hope that you learn a lot and that it will benefit you in your chosen career. You should expect to spend at least three hours out of class for each hour in class on this course. If you do not keep up with the

Tentative Class Schedule

Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me personally as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunity.

ASSISTANCE: If you need any help please see your discussion leader or me during my office hours. We will provide you with the assistance that you need, We (the graduate teaching assistants and professor) want you to learn the material and desire to provide help and assistance. Also, please feel free to ask questions and make comments in the lectures. **We want to help!**

EXAMS: Counting the final, there will be four exams given during the course. The four exams will be part multiple choice and part essay. You will receive credit only for the correct answer on the multiple choice questions. The first three of these exams will test essentially just the material covered from the previous exam. The final exam, however, will be comprehensive in that it will also test, to some extent, material covered throughout the entire course. If you miss an exam, with documented justifications, other provisions will be made to determine your course grade. Bring your ID's with you to the Exams. Bring a calculator and a pencil to the exams, and note that anything else brought to the exam will have to be left at the front of the class, where personal items can not be officially secured. If you can, try to arrive 15 minutes early for the exams.

QUIZZES: At the beginning of every chapter, a reading quiz will be given on-line. This will consist of several questions taken from the reading material in the chapter. (This is a very good way to get easy points.) There will be **no** make up quizzes. If, for documented reasons, you miss a quiz, suitable adjustments will be made in deriving your course grade.

GRADING: Your grade will be based on your performance on the four examinations (which includes the final); and the homework, group problems, and reading quizzes which collectively will count about the same as the total score on the three midterm exams. The average course grade for both sections of the course will be set to be somewhere in the C range. After each exam we will indicate the approximate letter grade that corresponds to your numerical score.

homework assignments regularly, you will not be able to catch up later. We would really like to know your impressions of the course as it proceeds. Please keep us informed as to what you like best and least about the course. In particular we want to be fair and to award you the grade you have earned.

Week	Date	Monday	Tuesday	Wednesday	Thursday	Friday
1	Aug 20 - Aug 24	Class Begins	Organization	Chapter 1		Begin Chapter 2
2	Aug 27 - Aug 31		Group Problem #1	Reading Questions #1 & #2		Homework Assignment #1
3	Sep 3 - Sep 7	no class	Group Problem #2	Reading Questions #3		Homework Assignment #2
4	Sep 10 - Sep 14		Homework Discussion		Homework Assignment #3	Exam #1 Chapters 1-3
5	Sep 17 - Sep 21	Reading Questions #4	Group Problem #3			Homework Assignment #4
6	Sep 24 - Sep 28	Reading Questions #5	Group Problem #4			Homework Assignment #5
7	Oct 1 - Oct 5	Reading Questions #6	Group Problem #5		Homework Assignment #6	no class
8	Oct 8 - Oct 12	Reading Questions #7	Homework Discussion		Homework Assignment #7	Exam #2 Chapters 4-8?
9	Oct 15 - Oct 19	Reading Questions #8	Group Problem #6			Homework Assignment #8
10	Oct 22 - Oct 26	Reading Questions #9	Group Problem #7			Homework Assignment #9
11	Oct 29 - Nov 2	Reading Questions #10	Group Problem #8			Homework Assignment #10
12	Nov 5 - Nov 9	Reading Questions #11	Homework Discussion		Homework Assignment #11	Exam #3 Chapters 9-12?
13	Nov 12 - Nov 16	Reading Questions #12	Group Problem #9			Homework Assignment #12
14	Nov 19 - Nov 23	Reading Questions #13	Group Problem #10	no class		no class
15	Nov 26 - Nov 30	Reading Questions #14	Group Problem #11			Homework Assignment #13
16	Dec 3 - Dec 7	Reading Questions #15	Homework Discussion			Homework Assignment #14