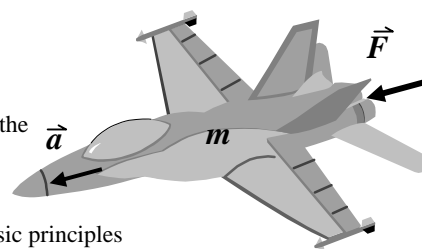


Analytical Physics I

(Phys 123-02)

Fall 2004



What am I doing here? “Physics” is a description (not an explanation) of the behavior of the physical world around us. In this course you will learn some of the definitions, concepts, and techniques of physics. You will practice what you have learned by *solving physics problems* on homework assignments, quizzes, and exams. Seriously, the only way to learn physics is to do physics. At the end of this course, you should be able to apply the basic principles of classical mechanics to solve a variety of problems (not just limited to the types we do in class).

What if I’m confused? Your textbook, *Fundamentals of Physics* (6th edition) by Halliday, Resnick, and Walker, provides many examples and hints for solving problems. In addition, the Physics and Astronomy Department provides a FREE tutorial center, the Physics Learning Center (Greene 135), staffed by physics majors to answer your questions. In addition, I will be happy to answer your questions (but not to do your homework for you) during the office hours listed above, or at any other mutually convenient time.

I want an ‘A’! I want you to get an ‘A’, too! Your grade in this course will be based on your homework grades, quizzes, and exams (including a comprehensive final).

Homework: You will submit the majority of your weekly homework using the CAPA system on the internet. CAPA homework is due **before** 8am on the day indicated (see back). In addition, you will submit a few written problems every week, which I will grade. This portion must be submitted at the beginning of class on the due date. You may discuss the assignments with other students, **but the work you submit must be your own**. I will drop your lowest written assignment score when computing grades. Solutions to all the homework problems will be posted on the web after the homework is collected.

Quizzes: Unannounced quizzes will be given often throughout the semester (about once each week). Quizzes will usually be given at the beginning of a class, and will often emphasize material from the previous class or assignment. I will drop your lowest quiz score when computing your final grade.

Exams: Notice that exams will *not* be given during class. Exams may require you to answer conceptual questions and to solve problems which I will design. There are 4 exams, including the final. The exams are scheduled as follows:

Exam #1	September 30, 2004	Chapters 1, 2, 3, and 4	Newton Hall, Room 202	7-9 pm
Exam #2	October 28, 2004	Chapters 5, 6, and 7	Newton Hall, Room 202	7-9 pm
Exam #3	November 18, 2004	Chapters 8, 9, and 10	Newton Hall, Room 202	7-9 pm
Exam #4 (Final)	December 17, 2004	All Chapters (+11, 12, 14, 16)	Bailey Hall, Room 135	8-11 am

If, for some non-trivial reason, you will be unable to take an exam at the scheduled time, I *may* allow you to take a make-up exam; however, you must contact me at least 1 week *prior* to the exam date. Rescheduling is *your* responsibility, not mine!

Grades: Final grades will be computed as follows:

CAPA Assignments	15% (total)
Written Homework	10% (total)
Quizzes	10% (total)
Exams #1, 2, and 3	15% (each; 45% total)
Final Exam	20%

What is my responsibility? You must attend and participate in class (and arrive on time), study the relevant sections of your textbook, and complete the homework assignments on time. This course moves along quickly and covers a lot of material; it is important that you keep up to date!

When will it all happen? Here is a proposed schedule of events for this semester. Please note the due dates for homework and the dates for exams. The schedule is subject to revision as the course progresses, and any major changes will be announced in class.

Monday	Tuesday	Wednesday	Thursday	Friday
Aug. 30 1 st day of class	Aug. 31	Sep. 1	Sep. 2	Sep. 3
Sep. 6 No class (Labor Day)	Sep. 7	Sep. 8 HW #1 Due	Sep. 9	Sep. 10
Sep. 13	Sep. 14	Sep. 15 HW #2 Due	Sep. 16	Sep. 17
Sep. 20	Sep. 21	Sep. 22 HW #3 Due	Sep. 23	Sep. 24
Sep. 27	Sep. 28	Sep. 29 HW #4 Due	Sep. 30 Exam #1	Oct. 1 No class
Oct. 4	Oct. 5	Oct. 6 HW #5 Due	Oct. 7	Oct. 8
Oct. 11 No class (Fall Break)	Oct. 12 (Fall Break)	Oct. 13	Oct. 14	Oct. 15
Oct. 18	Oct. 19	Oct. 20 HW #6 Due	Oct. 21	Oct. 22
Oct. 25	Oct. 26	Oct. 27 HW #7 Due	Oct. 28 Exam #2	Oct. 29 No class
Nov. 1	Nov. 28	Nov. 3 HW #8 Due	Nov. 4	Nov. 5
Nov. 8	Nov. 9	Nov. 10 HW #9 Due	Nov. 11	Nov. 12
Nov. 15	Nov. 16	Nov. 17 HW #10 Due	Nov. 18 Exam #3	Nov. 19 No class
Nov. 22	Nov. 23	Nov. 24 No class	Nov. 25 No class (Thanksgiving Break)	Nov. 26 No class
Nov. 29	Nov. 30	Dec. 1 HW #11 Due	Dec. 2	Dec. 3
Dec. 6	Dec. 7	Dec. 8 HW #12 Due	Dec. 9	Dec. 10
Dec. 13 Last day of class	Dec. 14 HW #13 Due Study Day	Dec. 15 Study Day	Dec. 16	Dec. 17 Final Exam