

Physics 1403-001, General Physics I, Fall 2008

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Text *Physics*, D.C. Giancoli (Prentice Hall) 6th edition.

- Algebra-based physics course; geometry and trigonometry are also useful
- Good website for the text: http://wps.prenhall.com/esm_giancoli_physicsppa_6
- This course covers chapters 1-12 of Giancoli, uniformly.
- This is a good textbook, and interesting to read apart from the physics

Lectures MWF 2:00-2:50pm, Science Room 007

Co-requisite Laboratory You must be enrolled concurrently in the Physics 1403 lab; please see separate laboratory syllabus.

Exams, labs, homework, and grading Three midterms and one final on the approximate schedule shown below, in addition to weekly homework and laboratory. The three midterms will be identical to the exams in the Physics 1403 TuTh lectures, while the final may be slightly different. Every effort will be made to keep the two lecture sessions and their grading scales the same.

Work	percent	Chapters	date, time
exam 1	10%	chap. 1-4	Sep. 24, 2pm
exam 2	10%	chap. 5-8	Oct. 22, 2pm
exam 3	10%	chap. 9-10	Nov. 19, 2pm
final exam	20%	chap. 1-12 (comprehensive)	Dec. 8, Mon. 4:30 - 7:00pm
homework	20%	on-line (see below)	weekly
quizzes	5%		Friday, weekly
laboratory	25%	see lab syllabus	weekly

The correspondence of this percentage score with a letter grade is guaranteed to be $0 \leq F \leq 54 \leq D \leq 66 \leq C \leq 78 \leq B \leq 90 \leq A \leq 100$; that is, if you score between 78 and 90 points, you are guaranteed a B, or better.

Homework All homework will be submitted through “Mastering Physics”. Go to the website <http://www.masteringphysics.com> and register as a “new student”. Your *student access code* is provided by your (new) textbook, but if you have a used book, you will need to buy an access code by clicking on *Buy Now*. The “course ID” is MPHAUPTMAN78633 (case sensitive). Be careful to register for the Giancoli text, *Physics*, 6th Edition. (There are other Giancoli books out there).

Study habits I strongly encourage you to work in (small) groups, to discuss problems and their solutions, and to work problems for the exams as practice. Real physicists do exactly this in their research lives.

Help First, my office hours are anytime you like, just call or send an email; second, your laboratory or recitation teaching assistant is available; third, there are tutors and fellow students, and supplemental instruction sessions; and, fourth, you may google “physics help” to get a huge number of explanatory sites, including Wikipedia (www.wikipedia.com), The Physics Classroom (www.physicsclassroom.com), and The Physics Help Room (help-room.physics.lsa.umich.edu).

Important dates

Date	event
Aug. 28, Thurs	last day to add
Sept. 1, Mon.	Labor Day, no classes
Sept. 10, Wed.	last day to drop with full refund
Sept. 22, Mon.	last withdrawal day with refund
Oct. 27, Mon.	last drop date
Nov. 26-30, Wed-Sun,	Thanksgiving, no classes
Dec. 2, Wed.	last class
Dec. 8, Mon.	Final exam
Dec. 15, Mon.	grades due

Academic integrity Honesty and trust are the basis of good science and good relations among colleagues in any community, scientific or social. Respect this; see the Student Handbook for details.

Disabilities Please see me.

Supplemental Instruction (SI)

Casey Davidson is the SI instructor for this course, and based on your preferences he has scheduled a weekly SI session where you can ask questions, work problems, and discuss physics:

Tuesday 5-6:30pm

Thursday 5-6:30pm

The room is Holden Hall 225.

Physics 1403 - Weekly syllabus - Fall 2008

Week	Date	Text	Day	topics
1	Aug 25-29	Chap 1	MW	Introduction, Measurement, Estimation
2	Sep 1-5	Chap 2	WF	Motion: Kinematics in One Dimension
3	Sep 8-12	Chap 3	M WF	Kinematics in Two Dimensions Newton's three laws of motion
4	Sep 15-19	Chap 4	MWF	Weight, normal force, free body diagram, friction, exercising Newton's laws
5	Sep 22-26	Chap 1-4 Chap 5	M W F	review of chapters 1-4 Exam 1, 2pm, room 7 (bring blue book) Circular motion, gravity
6	Sep 29-Oct 3	Chap 5,6	MWF	Gravity, Work and Energy
7	Oct 6-10	Chap 6,7	MWF	Linear Momentum
8	Oct 13-17	Chaps 7,8	MWF	Rotational motion
9	Oct 20-24	Chap 5-8 Chap 9	M W F	review chapters 5-8 Exam 2, 2pm, room 7 (blue book) review; Static equilibrium
10	Oct 27-31	Chap 9	MWF	Static equilibrium
11	Nov 3-7	Chap 10	MWF	Fluids
12	Nov 10-14	Chap 11	MWF	Vibrations and Waves
13	Nov 17-21	Chap 9-11 Chap 12	M W F	review chapters 9-11 Exam 3, 2pm, room 7 (blue book) Sound
	Nov 24-25 Nov 26-30	Chap 12	M WThF	Sound , interference, Doppler Thanksgiving (no classes)
14	Dec 1-5	Chap 12 Chap 1-12	M WF	Applications of sound, ultrasound imaging review
	Dec 8		M	Final, 4:30-7:00pm (blue book)