Don Cox 6205 Chamberlin, 262-5916, cox@wisp.physics.wisc.edu

Physics 207 Format

Exams

There will be 4 equal weight exams, no cumulative final.
Each exam will last 2 hours but be designed to be doable in 1 hour by some of the class.
Three exams will be on Wednesday nights, 7:15-9:15, in 1300 Sterling Hall.
The dates are Feb 11, March 18, and April 15.
The 4th exam will be at 12:25 am Wednesday May 13.
In the final grading, each student's lowest exam score will count only half.
The final grading will be mostly on an absolute standard, with guaranteed A, B, and C cutoffs no higher than 93%, 78%, and 50% of 350 points.

Labs

All labs are required. Makeup opportunities will be available during exam weeks, but all should try to do the scheduled labs during the originally scheduled week, even if it means going to a different lab section (should be prearranged with TA).
Each lab missed and not made up will lower the final grade by half a grade (e.g from AB to B).
The remaining evaluations of lab performance (quizzes, participation, lab notebook) will form part of the qualitative impression TAs will use to help decide borderline grades.

Homework

Homework will be collected and a qualitative record will be kept of your performance. The details of how that is done are left up to the individual section instructors. In all cases, if you want particular problems examined carefully, you should indicate that fact in boldly configured phraseology on the front page of the problem set. In general, homework will be returned about the same time your next set is due, but in all cases, all homework related to an upcoming exam will be returned no later than the first discussion of exam week.

Discussion Quizzes

Each section instructor will be attempting to make sure their students are keeping up, are understanding, and are positively reinforced when appropriate. Some may choose to give quizzes in discussion section to accomplish some of this. If so, those quizzes, along with the homework and lab performance become part of the qualitative record for use in deciding grading near borderlines.

Contextual Problems

I anticipate assigning 3 to 5 "contextual" problems during the course of the semester. Each of these must be done in collaboration with two or more fellow students. **Each will be graded on a 3 point scale, with the grades added directly to your exam scores.**

Card Responses

We will frequently have in class questions to which you will be asked to provide written responses, after discussion with your neighbors. The responses will be collected and perused by your TA to add to her or his incredibly diverse body of qualitative knowledge about you.

TAs' office hours held in Consultation Room, 2312 Sterling, schedule on door

Tentative Calendar April 20, 1998

Regular Lecture 12:05 Tuesday — Regular Lecture 12:05 Thursday — Special Lecture 12:05 Friday

	M	T	W	R	F		LABS	HOMEWORK
January	19	20 Getting Started	21	22	23 Discussion of Honors Meeting Topics			
	26	27 Ch 2, 1d motion Ch 3, vectors	28	29	30		M-1 Measurement	Ch 2 - 8, 39, 47, 57 Ch 3 - 29, 44, 50
February	2	3 Ch 4, 2d motion Ch 5, F=ma etc.	4	5	6	Explanations for shadings ⇓	M-4 Free Fall	Ch 4 - 4, 9 11,18, 22, 27 34, 36, 64 Ch 5 - 2, 3, 15, 25, 26, 41, 66, 71, 75
	9	10 review: Ch 1-6	11 207 Exam 1	12 Ch 6, circular motion	13	Valentine's Day	makeup	Ch 6 - 20, 29 or 31, 32, 37, 38a
	16	17 Ch 7, Work, Energy, Power	18	19 Ch 8, Potential Energy	20		M-5 Centripetal F	Ch 7 - 7, 11, 19, 20, 23, 25, 29, 35, 37, 40, 54, 57
	23	25 Ch 8, Energy Conservation	26	27 Ch 9, Linear Momentum	28		M-7, (10) Pendulum, g Power	Ch 8 - 2, 4, 11, 12, 21, 30, 38 Ch 8 - 5, 15, 35, 47, 51, 57, 64, 65, 76
March	2	3 Ch 9, Collisions	4	5 Ch 10, Rotation about Fixed Axis	6		M-8 Projectile	Ch 9 - 79, 83, 84, 87, 89
	9	10	11	12	13	Spring Break		
	16	17 review: Ch 6-9	18 207 Exam 2	19 Ch 10 Rotational Motion	20		makeup	
	23	24 Ch 10 Example	25	26 Ch 11, Rolling Ang. Momentum	27		M-14 (13) Air track Gyroscope	Ch 10 - 5, 6, 13, 21, 22, 25, 33, 35, 43 Ch 11 - 3, 6, 7, 13, 36, 48, 63
April	30	31 Ch 12, Static Equilibrium	1	2 Ch 13, Shaking Ab't Equilibrium	3		M-3 Statics	Ch 12 - 3, 6, 18, 35, 36 Ch 13 - 15, 21, 23, 37, 38, 55, 65
	6	7 Ch 14, Gravity, Planet Motion	8	9 Ch 15, Fluids	10 "Good Friday"	Boukahil Thursday	M-15 Mass on spring	Ch 14 - 7, 10, 20, 22, 29, 34, 64 Ch 15 - 6, 18, 27, 33, 39, 49, 50, 57
	13	14 review: Ch 10-15	15 207 Exam 3	16 Ch 15, Waves Ch 17, Sound	17		makeup	Ch 16 - 5, 21, 23, 31 Ch 17 - 5, 15, 29, 37
	20	21 Ch 18, Super-position	22	23 Ch 19, Temperature	24		S-1, S-3 Standing Waves	Ch 18 - 1, 10, 21, 43, 50 Ch 19 - 7, 20, 31, 39, 44, 45, 53, 60, 69
May	27	28 Ch 20, Heat and 1st Law o' Thmo	29	30 Ch 21, Gases	1		H4 Latent Ht, Ht Capacity	Ch 20 - 3, 8, 17, 29, 37, 41, 45, 73, 74, 75 Ch 21 - 7, 17 ,23 ,25 ,28
	4	5 Ch 22 Entropy	6	7 last class day review: Ch 16-22	8		H2 Absolute Zero	Ch 22 - 1, 15, 17, 26, 45
	11 Mother's Day	12	13 12:25 Exam 4	14	15	"Summary Period"		

Physics 207 Components

INPUTS	OUTPUTS	GRADING
The river of exposure.	**Practicing, and Performing**	**How** **How Much %**
		Not Qual Spot...Comp
regular lecture		
Friday lecture - Honors		
text reading	homework	hwk.....Qual
labs	lab notebooks	lab notebooks.....Qual
discussion sections	lab quizzes	lab quizzes.....(TA)
email	disc. quizzes	disc. quizzes.....(TA)
handouts	exams	exams, 4 equal, ...lowest counts half
homework solutions		
office hours	contextual problems	context probs..... ....collaborative,
collaboration		
cheat sheet prep		....3 point scale(each) ....added to exam total
	card responses	card responses.....Qual

EXAMS:

nature....."hour" exams with significant multiple choice component to cover basics
length.....2 hours
final exam type.....
just another exam on the 4th section of the material, at the final exam time shown in the timetable (12:25 am May 13th)

WAYS OUT OF TROUBLE

each person's lowest exam score will count only half

QUASI-ABSOLUTE GRADE LINES

A total score will be formed from the sum of the 3 highest exam scores, half the lowest exam, and the sum of the contextual problem scores.
(If, for example, there are 5 contextual problems, the maximum total points will be 365.)

I will quarantee an A to anyone who achieves 93% of the maximum, a B to anyone reaching 78%, and a C to anyone bettering 50%. The other lines I will leave flexible until I see how things turn out. If the exams turn out significantly harder than usual, I may lower these lines, but I won't raise them.

For students just below a borderline, their TA will be asked whether they should get the higher grade. The TA's response will be based on homework, quizzes, lab performance--all the qualitative information we have accumulated.