

Physics 107 in Fall 2005

Required Text: "University Physics," Vol. 1 by Young & Freedman, 11th Ed., Mastering Physics (for online homework due on Sundays by 5pm starting 9/4/05) (**Course ID PHY107SEN**), Student Solutions Manual (\$ 84.30 @ Univ Bookstore)
ISBN: 0321383729

Instructor: Prof. Surajit Sen
Office Hrs: 12:30-1:30pm Tue, Thu/by appointment
Office: 325 Fronczak Hall
Email/Phone: sen@nsm.buffalo.edu/645-2017x193
Webpg: <http://www.physics.buffalo.edu/~sen/Teaching.htm>

Lectures and
Home works Posted on Blackboard (<https://ublearns.buffalo.edu>)
Classes: 11-12:15, Tu, Thu at Rm 114 Hochstetter Bldg.
Recitations: See next page
TA Office Hrs: TBA

<i>Course</i>	<i>Instructor</i>	<i>Days/time</i>	<i>Location</i>
PHY 107 SEN lecture	Dr. S. Sen	TuTh @ 11:00 - 12:15	Hochstetter 114
PHY 107 S-1 recitation	R. Simion (834-8980)	M @ 12 -12:50	Fronczak 422
PHY 107 S-2 recitation	E. Fraser	Tu @ 8:30 - 9:20	NSC 210
PHY 107 S-3 recitation	R. Simion	F @ 12 - 12:50	NSC 228
PHY 107 S-4 recitation	R. Simion	W @ 12 - 12:50	NSC 228
PHY 107 S-5 recitation	E. Fraser	Th @ 8:30 - 9:20	NSC 210
PHY 107 S-6 recitation	E. Fraser	M @ 3 -3:50	NSC 218
Secretary: none			
Proctors/Graders: Fraser, Simion, C-W Huang, Xue, Halstead			

Grading

- Highest midterm score = 20%
- Next highest midterm score = 20%
- Lowest midterm score = 10%
- Final Exam score = 25%
- Mastering Physics = 15%
- Homeworks = 10%
- Recitation Quizzes (Bonus) = 5%

Physics 107 is a course on Mechanics.

There are students who could have easily taken the Honors version and there are students who have not seen much physics at all. How you will want to work will depend on your background.

Math/Calculus – Calculus skills are necessary for this course. We will start slowly and rapidly incorporate the use of calculus in developing the course material.

Algebra and Trigonometry – Should be in your fingertips

Vectors – We will cover vectors in depth in Ch 1.

Commitment –

This will not be a course for memorizing formulas. I will try to teach you about the concepts, ideas and the laws of mechanics. You will be required to apply these to solve problems. Some of these problems will be done online in the Mastering Physics utility and some will be done as traditional homeworks.

If you spend

3 hours on lectures

2 hours on recitations

7 hours on problem solving/week

12 hrs/ week in all

You will learn what is to be learnt and have no trouble passing this class.

How to make a good Grade

Letter grades will be assigned to your cumulative percentage numerical grade. To pass this course with a C grade or better, you should aim for a cumulative grade of better than 50%. Final grade distributions will depend upon the performance of the class.

Note that Mastering Physics assignments, and Homeworks count for 25% of your grade. Scoring well in this 25% will make a significant difference to your letter grade. Recitation quizzes will be administered in the recitation sections and will count for a bonus 5%. You must submit each homework assignment on time (due Thursday by 4:30pm at 239 Fronczak Hall, marked box for Phy 107) for your work to be graded.

Homework and Quizzes

Homework assignments will be posted here and on the course webpage at UBlerns.

Feel free to form study groups with your classmates and seek help from the instructor or TAs during his or her office hours as you attempt to solve the problems.

Solutions to the homework problem sets will be posted after the due date on the course webpage, and graded sets can be picked up during recitations.

Exam Schedule and Content

Exam 1:	Friday, September 23	6pm-7:50pm	Ch 1,2,3 NSC 225
Exam 2:	Friday, October 21	6pm-7:50pm	Ch 4,5,6,7 NSC 225
Exam 3:	Thursday, November 10	6pm-7:50pm	Ch 8,9,10 Fronczak 422, 454
Final:	To be announced		Ch 1-13, Ch. 10-13 emphasized

*Seating arrangements will be announced a week before the exams.

Exam Policy

Exams will consist of problems similar to the worked example problems in the text and the assigned homework problems. Exams will be closed book. You should bring with you a pocket calculator to work out the answers to numerical problems. Sharing of formula sheets or calculators will not be allowed.

Full credit on exams will be awarded for complete solutions including drawing an appropriately labeled figure and deriving necessary formulas, as appropriate, and for numerically accurate answers with appropriate significant figures. Partial credit may be given for correct derivations if the answer is numerically wrong due to arithmetic errors. No credit will be given for equations written down or for numerical answers that are not supported by appropriate derivations. You are urged to prepare for each exam by reading the textual material, studying the example problems and by insuring that you can independently work out the homework assignments. You should attempt to solve additional problems from the text.

Regrading

Exams will be graded and returned to you and solutions will be posted. You may request regrading of specific parts of your exam by returning it to your instructor (not your TA) in class or during office hours within one week after the exam has been returned to you. This request should be accompanied by a typed note specifying which problem parts you would like regraded and why. The note should be attached to the exam. Only one regrade request will be allowed for each exam. Please do not write on your exam booklet or alter it in any way. Exams will be randomly photocopied. Exams that have been tampered with or altered in any way will not be regraded and further disciplinary action will be taken.

Missed Exams

You will be assigned a score of zero on any exam you miss. You may request a make-up exam if you have a valid excuse. A valid excuse is defined as a documented major emergency, or a written certification by a registered medical practitioner that you were unable to take the exam due to illness. Conflicts with other academic activities may also be considered as a valid excuse, but only if you inform the instructor before the exam.

If you maintain a passing average on the midterm exams and homeworks but miss the final exam with a valid excuse, you may request an Incomplete (I) grade for the course. Incomplete work must be made up when the course is offered again, and before the default deadline. Students who are not maintaining a passing average will not be considered for incomplete grades.

Resignation

Last day to drop without \$ liability: **Sept. 2**

Last day to drop without R grade: Sept. 9

Last day to drop with R grade: Oct. 21

Last day to drop with R grade (for first semester students only): Nov. 11

If you are still registered in the course after October 22 (or November 12 if you are a first semester student), you will receive an A-F letter grade. The I grade is available only to those who are performing at a passing level but cannot complete the course for a valid reason.

Students with Disabilities

If you have a disability and require reasonable accommodation to enable you to participate in this course, such as note takers, readers, or extended time on exams and assignments, please contact the Office of Disability Services, 25 Capen Hall (645-2608), and also see your instructor during the first two weeks of classes.

Academic Integrity

Students are responsible for abiding by the academic integrity policies of the UB. In fairness to all students, academic dishonesty will be prosecuted to the fullest extent.