

LECTURER:

Dr. Michael Ram

Office Hours: Tu 11:00 – 12:00 pm, Th 12:00 – 1:00 pm in Room 303 Fronczak Hall

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Course home page: The url is

<http://www.physics.buffalo.edu/phy102a/>

This syllabus and any subsequent additional information (e.g. TA office hours, course grades) will be posted on the course home page.

RECITATION TA's: TO BE ANNOUNCED

COURSE SECRETARY: TO BE ANNOUNCED

TEXTBOOKS:

1. Physics, Cutnell and Johnson, 6th Edition (required)
2. Cutnell and Johnson, "Student Solutions Manual" (optional)
3. Essential Mathematics for College Physics, Michael Ram, (optional)

All books are available at the University Bookstore

FORCED REGISTRATION AND PROBLEMS: See Mr. Joseph Helfer (235 Fronczak Hall)

LABS: **ALL** questions concerning labs should be addressed to Dr. Bill Condit, Room 304 Fronczak Hall, who is in charge of undergraduate labs, or to your lab TA.

GRADES:

Grades in the course will be based on the three exams that will be given, and on homework. The breakdown is as follows:

<b>EXAM I</b>	<b>30%</b>
<b>EXAM II</b>	<b>30%</b>
<b>EXAM III</b>	<b>30%</b>
<b>HOMEWORK</b>	<b>10%</b>

**ALL THREE EXAMS WILL BE HELD IN 201 NSC DURING CLASS TIME**

There will be no cumulative final.

Letter grades will be assigned according to the following scheme.

86% and over A, 81-85% A-, 76-80% B+, 71-75% B, 66-70% B-, 61-65% C+, 56-60% C, 51-55% C-, 46-50% D+, 41-45% D, 40% and under F.

## HOMEWORK:

Neatly written solutions to the assigned homework problems (problems only, not questions) must be placed in the appropriate box located near the entrance to the physics department office (239 Fronczak Hall) by the due date. A subset of the homework problems will be graded by the recitation instructor and the rest counted. A numerical score will be assigned for each homework set. Late homework will not be accepted.

Even though you are not required to hand in the answers to the assigned questions, it is extremely important that you do them since they are useful for understanding concepts.

## EXAMS

All exams will consist of multiple choice questions and will be strictly closed book. You should bring with you a functioning scientific calculator with spare batteries. No scrap paper will be allowed.

The best way to prepare for exams is to study the sample problems and to work out the assigned homework problems regularly each week. If you can spare the time, work as many additional problems from the text as you can: you could choose the odd-numbered problems for which answers are given.

## MISSED EXAMS

The only acceptable excuse for missing an exam is sickness at the time of the exam or a major emergency. Documentation will be required.

## STUDENTS WITH DISABILITIES:

If you have a disability, (physical or psychological) and require reasonable accommodations 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 me during the first two weeks of class. ODS will provide you with information and review appropriate arrangements for reasonable accommodations.

## Syllabus and Homework Assignments

Ques. and Prob. numbers refer to the Questions and Problems at the end of the chapter. Also listed are problems that will be covered in recitation. (Rec.)

DATE	CHAPT	HOMEWORK QUESTIONS AND PROBLEMS AND RECITATION PROBLEMS	DUE
Tu 1/13 Th 1/15 Tu 1/20	18 (exclude section 9)	Ques: All <u>except</u> 17, 18, 19 Prob: 2,4,9,12,14,25,29,32,37 Rec: 10,28,34	Th 1/22
Th 1/22 Tu 1/27 Th 1/29	19	Ques: All Prob: 2,3,12,13,16,17,28,29,36,40,42 Rec: 4,14,20,32,40	Tu 2/3
Tu 2/3 Th 2/5	20 (exclude sections 10,12) (section 5 will be covered with Chapt. 22)	Ques: All Prob:2,3,6,7,10,13,15,21,22,25,28, <u>30,31,32</u> ,40,41,46,50,52,67,68 Underscored problems due separately on 3/6 Rec: 8,12,44,54,70	F 2/6
Th 2/12 Tu 2/17 Th 2/19	21 (exclude section 8)	Ques: All Prob: 2,4,7,10,11,12,24,26,29,32,36,46,47,53 Rec: 3,17,20,30,42,48,54	Tu 2/24
<b>TUESDAY FEBRUARY 10 EXAM I (CHAPTERS 18,19,20)</b>			
Tu 2/24 Th 2/26 Tu 3/2	22 (Exclude Sect. 8) (Sect. 5 from Chapt. 20 covered here)	Ques: All Prob: 2,4,10,12,17,18,20,28,32,37,40,54,56 Rec: 3,13,23,30,38,60	Th 3/4
READING ASSIGNMENT	24 (sections 1,2,3 only)	Prob: 2,7,8,12,14,18	Th 3/4
Th 3/4 Tu 3/9 Th 3/11	25	Ques: All Prob: 3,7,10,11,18,19,22,24 Rec: 8,12,16,20	F 3/12
Th 3/25 Tu 3/30 Th 4/1	26 (exclude sections 9,12,13)	Ques: All <u>except</u> 32,33,34,35 Prob: 2,3,6,7,10,12,14,16,24,25,28,33,34,41,44,47,48,51 Rec: 4,15,19,26,32,,46	Tu 4/6

**TUESDAY MARCH 23 EXAM II (CHAPTERS 21,22,24,25)**

READING ASSIGNMENT	27 (Sections 1,2,3 only)	Ques: 1,2,3,4,5,6,7,8 Prob: 2,3,7,10,13 Rec: 4,12	Tu 4/6
Tu 4/6 Th 4/8 Tu 4/13	28 (exclude section 7)	Ques: All Prob: 2,4,8,10,12,17,18,22,25,26, Rec: 5,13,20,24	Th 4/15
Th 4/15 Tu 4/20	29 (exclude sections 2 and 6)	Ques: All Prob: 2,3,6,7,13,14,21,22 Rec: 4,17,24	Tu 4/20

**THURSDAY APRIL 22 EXAM III (CHAPTERS 26,27,28,29)**