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PHYS 121N.02: General Physics I

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Physics 121 - General Physics, Section 2

Fall Semester 2001

LECTURES: MTWRF 10:10 - 11:00am, SC (Science Complex) Rm 131

INSTRUCTOR: Andrew Ware
Office: SC 120, (Tel. No. 243-6221)
Email: aware@selway.umd.edu
Office Hours: MWF 11am-12pm, T 9-10am, R 1-2pm
(and by appointment)
Two help sessions will be scheduled before each exam.

WEBSITE: <http://www.physics.umd.edu/phys121-2/>

TEXTBOOKS: Physics - Principles with Applications
by D.C. Giancoli, 5th Edition (Prentice-Hall, 1998)
“Faculty Pack” prepared by the UM physics faculty.

PREREQUISITE: Working knowledge of high school algebra and trigonometry.

HOMEWORK: Reading assignment (about 1 chapter per week)
Problem assignments (15-20 problems per week)
[Homework problems will not be collected or graded]

EXAMS: Six 50-minute exams
We 9/19, Th 10/4, Fr 10/19, Mo 11/5, We 11/28. & We 12/12
* Will cover two to three chapters per exam.
* Closed book but each student is allowed to bring
one 3” x 5” card on which notes can be written.

One 2-hour final exam (8:00 - 10:00am, We 12/19)
* Comprehensive.
* Closed book but each student is allowed to bring
six 3” x 5” cards on which notes can be written.

LAB REPORTS: Every student must turn in his or her short write-up after each of 10 labs.
Students must attend labs. Failure to turn in 3 labs results in loss of one letter grade. Failure to turn in more than 3 labs results in a failing grade for the entire course.

GRADING:	50-minute exams	60 % (5 best, 12 % each)
	Lab reports	10 % (All 10 labs, 1 % each)
	Final exam	30 %

[This course can be taken for a traditional letter grade (A,B,C,D,F) only]

Physics 121 - Course Outline

<u>Week</u>	<u>Dates</u>	<u>Topics</u>	<u>Chapters</u>	<u>Exams</u>
1	9/4-9/7	Introduction	1	
		1-D kinematics	2	
2	9/10-9/14	1-D kinematics (cont.)	2	
		Vectors, 2-D kinematics	3	
3	9/17-9/21	2-D kinematics (cont.)	3	No. 1 (9/19)
		Dynamics, Newton's laws	4	
4	9/24-9/28	Application of Newton's laws	4	
5	10/1-10/5	Circular motion, gravitation	5	No. 2 (10/4)
6	10/8-10/12	Work and energy, energy conservation	6	
7	10/15-10/19	Momentum, collisions, impulse, momentum conservation	7	No. 3 (10/19)
8	10/22-10/26	Center of mass	7	
		Rotational kinematics and dynamics	8	
9	10/29-11/2	Statics	9	
10	11/5-11/10	Fluid mechanics	10	No. 4 (11/5)
11	11/12-11/16	Vibrations and waves	11	
12	11/19-11/20	Acoustics, decibels, sources of sound	12	
13	11/26-11/30	Temperature, kinetic theory	13	No. 5 (11/28)
14	12/3-12/7	Heat, calorimetry, heat transfer	14	
15	12/10-12/14	Thermodynamics, Review	15	No. 6 (12/12)
16	12/19	Final Exam Wednesday, 8:00-10:00am		

Mon 9/24 - Last day to add, drop or change sections by Dial Bear.

Mon 10/15 - Last day to add, drop, change sections, or change to audit.