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Fall 9-1-2001

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