

**PHYSICS 1410: GENERAL PHYSICS I:  
MECHANICS, WAVE MOTION, AND HEAT  
(Revised 10/10/12)**

**Instructor:** C. L. Littler  
**Office:** 306 Physics Building  
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**Room/Time:** Physics 102 / 6 - 10 pm  
**Off. Hr.'s:** 4:30 pm - 5:30 pm Wednesday and by Appointment  
**Text:** Physics 9e, Cutnell and Johnson

**Key:** L-1 = Lecture Chapter 1  
A-3 = Assignment Chapter 3

**TENTATIVE COURSE OUTLINE AND SCHEDULE**

<b>Class Meeting:</b>	<b>Topic(s)</b>	<b>Homework Problems</b>
August 29	L-2, Introduction to Physics Kinematics in 1-D	
September 5	L-3, Kinematics in 2-D	A-2: 6,7,17,25,37,39,40,56,60,65
September 12	L-4, Forces, Newton's Laws	A-3: 2,6,12,19,23,34,43,47,49,54
September 19	L-5, Circular Motion	A-4: 3,9,11,23,45,48,54,61,71,86
September 26	L-6, Work and Energy	A-5: 6,11,15,20,23,28,31,35,42,45
October 3	<b>Exam #1, Chapters 2-5</b> L-7, Impulse, Momentum	A-6: 2,6,11,20,32,35,38,43,54,63
October 10	L-8, Rotational Kinematics	A-7: 1,5,8,12,24,25,34,42,46,52
October 17	L-9, Rotational Dynamics	A-8: 2,7,13,22,26,32,35,47,51,57
October 24	L-10, Simple Harmonic Motion	A-9: 5,12,15,22,34,36,45,50,59,63
October 31	<b>Exam #2, Chapters 6-9</b> L-11, Fluids, Fluid Dynamics	A-10: 2,10,12,18,21,26,28,34,44,54, <b>(Due Friday 5pm, Physics 110)</b>
November 7	L-12, Temperature and Heat	A-11: 3,12,18,22,26,30,38,43,51,66

November 14	L-13, Heat Transfer	A-12: 14,22,32,35,44,50,53,63,67,70
November 21	<b>Thanksgiving Holiday</b> <b>Outside Reading Assignment in Lieu of Class</b>	
November 28	<b>Exam # 3, Chapters 10-12</b> L-16, Waves and Sound	A-13: 4,15,17,29,45,55,73,77 <b>(Due Friday 5pm, Physics 110)</b>
December 5	L-17 Superposition, Interference	A-16:13,19,21,29,46,51 A-17:5,21,28,33
<b>December 12th</b>	<b>FINAL EXAM —Physics 102</b>	

**Grading Scheme:** The grading in the course will be based on the total points earned from exams, homework, and attendance/short quizzes (both class and recitation). Homework **MUST** be turned in at recitation. Selected homework problems will be discussed in recitation via student/instructor presentation and instructor guidance. There will be 3 regular exams throughout the semester and a **comprehensive** final exam. **Your grade on the final exam will be substituted for your lowest regular exam grade, as long as it improves your overall average.** Makeups for missed exams are possible, but only in the case of demonstrable hardship. The point values for each category is given below:

Exams	45% (15% for each regular exam)
	30% final
Homework	15%
Attendance	
(class, recitation	10%
short quiz)	
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<b>Total</b>	<b>100%</b>

*The University of North Texas is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 92-112 – The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act (ADA), pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.*

UNT's policy on Academic Dishonesty can be found at: <http://www.vpaa.unt.edu/academic-integrity.htm>

Drop information is available in the schedule of classes at:  
<http://essc.unt.edu/registrar/schedule/scheduleclass.html>