

**PHYSICS 213**  
**Spring 2007 Syllabus**

**Instructor:** Dr. Darin Zimmerman

**Office:** 106 Science

**Office Hours:** MWF, 11 – 11:50pm, or by appointment

**Phone:** 949-5746

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**Meeting Time / Place:** MWF, 3:00 – 3:50p / 108 Holtzinger (Lecture)  
T, 4:15 – 6:05p / 202 Holtzinger (Lab)

**Textbook:** *Physics for Scientists and Engineers with Modern Physics, 1/e*, by Randall Knight

**Course Description:** Calculus-based study of the basic concepts of fluids, waves, sound, heat, kinetic theory, entropy, and heat engines.

**Grade Weighting:** Quizzes (25%) + Labs (25%) + Midterm Exam (25%) + Final Exam (25%)

**Letter Grades:** Exam scores will be curved and averaged with the other areas and compared to this scale:

A (94-100), A- (90-94), B+ (87-90), B (83-87), B- (80-83), C+ (75-80), C (70-75), D (60-70), F (<60)

**Quizzes:** In lieu of having you turn in homework for a grade, we will have chapter quizzes. Each quiz will be similar to the previously assigned homework problems. *There will be no makeup quizzes since I will drop your lowest score.*

**Homework:** Homework will be assigned but not turned in for a grade (see above). Although the homework is not graded, I *strongly* suggest you work hard at completing it since the quizzes are similar to the homework.

**Labs:** You must attend the labs and you must pass the lab (60% or better) to pass the class.

**Exams:** Exam problems will be similar to the homework problems. Each exam will consist of 3 to 6 problems. The Final Exam will be cumulative. *There will be no make-up exams except in very exceptional cases (death in the family, hospital admittance)*

**Academic Integrity:** Cases of academic dishonesty (cheating, plagiarism, fraud, etc.) will be dealt with harshly. Consequences for such behavior may include receiving a failing grade on the exam or in the course and in more serious cases, permanent expulsion from the University. For the details, see *The Student Guide to University Policies and Rules*.

**Class Cancellation:** In the event that snow or other inclement weather forces a delay or a closing of the campus, class may be cancelled. If this happens you may call my voicemail number above and I will inform you as to whether or not class is indeed cancelled.

**Comments:** Traditionally, a course in physics may be the most difficult subject you encounter in your college career. At the same time it can be one of the most interesting (even if you're not a physics major). One key to your success will be to complete all of the assigned homework. Just as with any acquired skill, practice will sharpen your ability to solve the problems.

My mission is to facilitate your learning and provide you with the tools to complete the work. I will try to provide you with an underlying motivation for the topics we are studying that will make the course more interesting and enjoyable for you. I make myself available for help so you should not hesitate to come to my office when you are struggling (come by even if you're not struggling!). You should feel free to approach me with questions and problems - no matter how "stupid" or "simple" you think they might seem.

**Physics 213 Spring 2007 Class Schedule** (Subject to change...)

Week	Date	Day	Chapter (topics)	Homework
1	January 15 17 19	M W F	<i>MLK Day – no class</i> <b>15</b> (fluids and elasticity)	<b>15</b> (9,19,23,25,32,39,43,49,52,61,67)
2	22 23 24 26	M T W F	<b>16</b> (macroscopic description of matter) Ch. 15 Quiz / Lab 1	<b>16</b> (9,19,23,25,29,31,34,41,43,47,49,52,56,59)
3	29 30 31 February 2	M T W F	<b>17</b> (Work, heat, 1 <sup>st</sup> Law of Thermodynamics) Ch. 16 Quiz / Lab 2	<b>17</b> (5,13,19,25,27,35,43,45,51,57,61,66,79)
4	5 6 7 9	M T W F	<b>Midterm Exam</b> (in lab) <b>18</b> (The micro/macro connection)	<b>18</b> (3,9,13,17,21,25,29,41,43,45,55)
5	12 13 14 16	M T W F	<b>19</b> (Heat engines and refrigerators) Ch. 18 Quiz	<b>19</b> (3,11,15,19,23,29,31,33,41,47,49,56,61)
6	19 20 21 23	M T W F	<b>20</b> (Traveling waves) Ch. 19 Quiz  <i>Late drop deadline</i>	<b>20</b> (3,7,11,15,22,27,33,43,45,50,53,69,74)
7	26 27 28 March 2	M T W F	<b>21</b> (Superposition) Ch. 20 Quiz / Lab 3	<b>21</b> (1,7,11,13,19,21,23,28,31,35,41,55,68)
8	5	M	<b>Final Exam</b> (3:00 – 4:50pm)	