Physics 201
Summer 1995

Professor Jim Amundson
Email: amundson@phenom.physics.wisc.edu
Office: 4412 Sterling Hall
Phone: 262-4699

Text Halliday, Resnick and Walker, *Fundamentals of Physics*, 4th Ed.

Other Required Materials Calculator: Must have trig, exponential and log functions.
Laboratory Manual: *Laboratory Experiments in General Physics*, 1994 Edition.
Laboratory Notebook: Spiral bound, with 5 or 6 mm grid. You must bring your notebook to the first lab meeting.

Homework Homework will be assigned in class and will generally be due two class days afterward. The web page <http://phenom.physics.wisc.edu/~amundson/physics201.html> will also have the homework assignments. You may discuss the assignments with others. In fact, you are encouraged to do so.

Laboratory You will write up all your experiments during the laboratory period. The lab notebook is not to leave the lab. **You need to complete at least 10 out of the 11 labs to pass the course.** Labs may be made up only with advance permission from your TA.

Discussion Sections You will be given brief quizzes on the homework in the discussion section on the days homework is due.

Office Hours I will have office hours Monday and Wednesday from 1 PM to 2 PM. You may feel free to try me at other times, but I may be busy or gone. The TA's will also have office hours. Please see them for their times.

Exams The exam times are listed in the schedule. There will be no makeup exams, so please make sure you are able to attend all the exams before registering for the course. You will be allowed to bring one 8.5" × 11" sheet of notes to the exams. You will also be required to bring a working calculator.

Web Page I have a page devoted to this class on the World Wide Web. It can be found at <http://phenom.physics.wisc.edu/~amundson/physics201.html>.

Grading The course grade will be 70% exams, 10% labs and 20% homework and discussion, *provided at least 10 of the 11 labs are completed. Otherwise, no credit for the course will be given.* The lowest exam score will be dropped and the remaining three averaged with equal weight.

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Week	Day		Chapter and Subject	Lab
1	Mon	6/19	*1* Introduction and Measurement	*No Lab*
	Tues	6/20	*2* 1-D Motion	*No Lab*
	Wed	6/21	*3* Vectors	*M1* Measurements and errors
	Thurs	6/22	*4* Motion in more than 1-D	*M1* Measurements and errors
2	Mon	6/26	*5* Newton's Laws	*M2* Vectors
	Tues	6/27	*5* continued	*M2* Vectors
	Wed	6/28	*6* Force and Motion	*M4* Acceleration in Free Fall
	Thurs	***6/29***	***Exam 1: Chapters 1–6***	*M4* Acceleration in Free Fall
3	Mon	7/3	*7* Work and Energy	*No Lab*
	Tues	7/4	*Independence Day—no class*	*No Lab*
	Wed	7/5	*8* Conservation of Energy	*M10* Power and Friction
	Thurs	7/6	*9* Systems of Particles	*M10* Power and Friction
4	Mon	7/10	*10* Collisions	*M5* Projectile Motion
	Tues	7/11	*11* Rotation	*M5* Projectile Motion
	Wed	7/12	*12* Torque and Angular Momentum	*Make up*
	Thurs	***7/13***	***Exam 2: Chapters 7–11***	*Make up*
5	Mon	7/17	*12* continued	*M6* Circular Motion
	Tues	7/18	*13* Statics and Elasticity	*M6* Circular Motion
	Wed	7/19	*14* Oscillations	*M9* Flywheel
	Thurs	7/20	*14* continued and *15* Gravity	*M9* Flywheel
6	Mon	7/24	*15* continued	*M7* Simple Pendulum
	Tues	7/25	*16* Fluids	*M7* Simple Pendulum
	Wed	7/26	*16* continued	*Make up*
	Thurs	***7/27***	***Exam 3: Chapters 12–16***	*Make up*
7	Mon	7/31	*19* Temperature	*M15* Simple Harmonic Motion
	Tues	8/1	*20* Heat and the 1st Law	*M15* Simple Harmonic Motion
	Wed	8/2	*21* Kinetic Theory of Gases	*H2* Gas Thermometer
	Thurs	8/3	*21* continued	*H2* Gas Thermometer
8	Mon	8/7	*22* Entropy and the 2nd Law	*H4* Heat of Vaporization
	Tues	8/8	*22* continued	*H4* Heat of Vaporization
	Wed	8/9	Review	*Make up*
	Thurs	***8/10***	***Final Exam***	*Make up*