

PHYS 1002: General Physics II
PHYS 1012: General Physics II Lab
Spring 2005

Dr. Kelsey Jordahl

Telephone: (973) 452-5588 [dept. secretary (973) 443-8680]

Email: kelsey_jordahl@fdu.edu

Web site: <http://alpha.fdu.edu/~jordahl/phys1002.html>

Office hours: by appointment (email preferred to make appointment)

Lecture: Thursday 5:25pm–8:00pm Dreyfus 105 (note change!)

Lab: Thursday 8:10pm–10:45pm S-1 (Physics Lab)

Final Exam: May 12 5:25pm

Text: Jones & Childers, *Contemporary College Physics*,
Third Edition, McGraw Hill, 2001 Update.

Overview: This course is for students in the biological sciences and premedical curricula and for nonscience majors desiring two semesters of physics. Contemporary topics such as relativity, nuclear, atomic and molecular structure follow classical topics such as mechanics, waves, heat, electricity, magnetism and light. The treatment is generally quantitative but without calculus.

<u>DATE</u>	<u>Lecture Topic</u>	<u>Chapter</u>
1/27	Gas Laws & Kinetic Theory	12
2/3	Thermodynamics	13
2/10	Periodic Motion	14
2/17	Waves & Sound	15
2/24	Exam 1	
3/3	Electric Charge & Electric Field	16
3/10	Electric Potential & Capacitance	17
3/14-18	SPRING BREAK	
3/24	Electric Current & Resistance	18
3/31	Magnetism	19
4/7	Exam 2	
4/14	Geometrical Optics & Instruments	22-23
4/21	Wave Optics	24
4/28	Relativity	25
5/5	Quantum Mechanics	27-28
5/12	Final Exam	

Grading: 60% Exams (3 exams including final, 20% each)
10% Homework
30% Laboratory writeups

Homework is an important part of this class. You are encouraged to work together on homework problems. However, each student must do his or her own writeup of the solution. Do not just copy down the equations! Explain the solution in your own words. Homework will not be accepted after the due date unless approved by me in advance. Late homeworks may be penalized. The lowest homework score will be dropped before calculating your homework average.

Laboratory reports are due at the beginning of the lab period and late reports will be penalized. Make-up labs will not be allowed. The lowest lab score will be dropped before calculating your lab average.