

Instructor: Mr. Rafe Paulson

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### **Topics Covered**

Unit 1: Kinematics

Unit 2: Dynamics (2D Kinematics)

Unit 3: Circular Motion and Gravitation

Unit 4: Energy

Unit 5: Momentum

Unit 6: Simple Harmonic Motion (SHM)

Unit 7: Torque and Rotational Motion

### **Textbook (will be provided by the school)**

Physics: Principles with Applications (eighth? edition)

by Giancoli, Douglas, (copyright 2014?) published by Pearson

### **Attendance Policy**

Experience shows that students who do not attend class regularly do not do well in math/science classes. Attendance is expected everyday (excluding excused absences and extracurricular activities; such as sports, FFA, FBLA, etc.), but will not be directly included in the calculation of your final grade.

### **Homework**

Homework will be assigned nearly everyday, and will be assigned and completed using the textbook provided. The student will have TWO DAYS (including the day it was assigned) to complete the assignment. (For example: if an assignment is assigned on Monday, then it will be due Wednesday at the beginning of class.) Also, every week a small set of supplementary problems will be handed out. The solutions to these problems must be written out and turned-in for grading. Supplementary problems will typically be assigned every Wednesday and due the following Wednesday at the beginning of class. These problems, in general, will be more complex than the homework problems, and will give the student practice synthesizing and applying the concepts learned in class. They will also give me a chance to provide the student with feedback on his/her problem-solving skills before being tested on the material. Late work will be handled as follows....

1st day late	=	a 10% deduction of overall assignment grade
2nd day late	=	an additional 10% deduction of overall assignment grade
3rd day late	=	a grade of 0% will be given for the assignment

### **Lab**

There will be weekly labs in class. Safety and standard laboratory procedures MUST BE followed. Strict rules regarding clothing and safety eyewear will be enforced for the lab. Unless otherwise instructed, the student must always wear safety goggles (indirect ventilation) in the lab. Safety glasses are NOT permitted. Safety goggles will be provided by the school. If the student refuses to wear eye protection, he/she will be asked to leave the lab without finishing the experiment and will receive a zero for that experiment. Wear appropriate clothing and footwear to the lab. Appropriate clothing includes long pants or other attire that covers legs to the ankle; short or long sleeve tops that cover the shoulders, do not have deep-cut necklines, and do not leave exposed skin around the waist or the back, and shoes that cover that toes and heels (no sandals, clogs, or crocs). (In other words, wear jeans, a t-shirt, and tennis shoes - and you will be good to go!)

### **Tests and Final Exams**

There will be a total of EIGHT tests and two finals, throughout the school year. A final exam will be given at the end of each SEMESTER, and will be cumulative only with the respective semester. The best study aides in preparing for the final are the student's homework, notes, and tests. Students may choose to take the AP exam in May in place of their spring final exam.

### **Grading**

Coursework grades will be used to calculate a final numerical score for the course. Each component will be weighted as follows:

Homework	30%
Labs	25%
Supplementary problems	25%
Tests	20%

Letter grades will not be assigned until the end of the quarter. If the student needs to estimate the course grade at any time, use the following scale:

100.0% - 97.0%	A+
96.9% - 93.0%	A
92.9% - 90.0%	A-
89.9% - 87.0%	B+
86.9% - 83.0%	B
82.9% - 80.0%	B-
79.9% - 77.0%	C+
76.9% - 73.0%	C
72.9% - 70.0%	C-
69.9% - 67.0%	D+
66.9% - 60.0%	D
59.9% - 0%	F

### **Cheating**

Cheating of any sort will not be tolerated. If the student is caught intentionally cheating, the student will receive as a MINIMUM penalty of zero for that work. Repeated instances of cheating will result in an F for the course and may be subject to additional discipline (suspension or expulsion).

### **Special Consideration**

If the student requires course adaptations or accommodations because of documented disability, if the student have emergency medical information to share with me, or if the student needs particular arrangements in case the building must be evacuated, please meet with me and inform me of the particular situation as soon as possible.

and finally...

As the instructor of the class I reserve the right to change, edit, and revise the syllabus and the course content as needed.

I expect a lot from my students, and in return I give all the help I can. PLEASE come talk to me if/when you need help. Helping you succeed in the classroom is my job, and it's a job I love to do.