

Tri-County Co-Op Physics Syllabus – Fall Semester 2017

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Grades: I plan to send out 2 separate grades: a lab grade and a homework grade. The homework grade will be given on the practice problems at the end of each module from the text book. No credit will be given for answers only homework. The work is just as important as the answer for physics. The pre-labs, post-lab exercises and analysis will determine the lab portion of the grade. I would recommend that the overall physics grade be determined as follows: 25% homework, 25% lab and 50% tests/quizzes. There will be no tests or quizzes given in class. It is up to the parent as to whether or not they would like to administer the tests at home. I will use the following grade scale when giving grades:

A	90 to 100
B	80 to 89
C	70 to 79
D	60 to 69
F	59 and below

Text: Exploring Creation with Physics: 2nd Edition
Lab Manual: BJU Press Physics Lab: 2nd Edition
I purchased used lab books from EBay at a cost of \$10 per book. I will hand these out at the first co-op class on 9/1/17)

Expectations: It is my expectation that each student arrives at class on time, homework complete and ready to start class. It will be very difficult to complete the lab in class without completing the assigned module and pre-lab to give the student a basic understanding of the concepts being reinforced during the lab. Although only one module is due each week, each averages 35-40 pages of reading and practice problems. This should not be done at the last minute.

Materials: It is expected that each student arrive in class with a pencil, extra paper, lab book, a calculator and a good attitude. I will let you know if other materials are need for an individual lab such as a ruler or protractor.

9/1/17

Math Review – Significant Digits & Trigonometry

Feel free let me know if there are areas of concern for you regarding the math. I would be glad to go over any other math topics as well. I will also answer any math questions as we go through the book together.

Due In-Class Today	Homework for 9/8
<ul style="list-style-type: none">Math Review Packet	<ul style="list-style-type: none">Read Module #1On Your Own QuestionsReview Questions at the end of the modulePractice Problems on p. 35-36Pre-Lab for Lab 1-1 on p. 7-8 of lab book

9/8/17

Measurement Lab 1-1

Due In-Class	Homework for 9/22
<ul style="list-style-type: none">• Practice Problems on p. 35-36• Pre-Lab for Lab 1-1 on p. 7-8 of lab book.	<ul style="list-style-type: none">• Lab 1-1 including all post lab exercises and post lab analysis• Pre-Lab for Lab 2-2• Read Module #2• On Your Own Questions• Review Questions• Practice Problems on p. 70

9/22/17

The Recording Timer Lab 2-2

Due In-Class Today	Homework for 9/29
<ul style="list-style-type: none">• Lab 1-1 Post Lab• Pre-Lab 2-2• Practice Problems from pg. 70	<ul style="list-style-type: none">• Read Module #3• On Your Own Questions• Review Questions at the end of the module• Practice Problems on p. 104• Pre-Lab for Lab 2-4 on p. 47 of lab book• Lab 2-2 including all post lab exercises and post lab analysis

9/29/17

Displacement, Velocity and Acceleration Lab 2-4

Due In-Class Today	Homework for 10/13
<ul style="list-style-type: none">• Lab 2-2 Post Lab• Pre-Lab 2-4• Practice Problems from pg. 104	<ul style="list-style-type: none">• Read Module #4• On Your Own Questions• Review Questions at the end of the module• Practice Problems on p. 139-140• Pre-Lab for Lab 1-2 on p. 17 of lab book• Lab 2-4 including all post lab exercises and post lab analysis

10/13/17

Vectors Lab 1-2

Due In-Class Today	Homework for 10/20
<ul style="list-style-type: none">• Lab 2-4 Post Lab• Pre-Lab 1-2• Practice Problems from pg. 139-140	<ul style="list-style-type: none">• Read Module #5• On Your Own Questions• Review Questions at the end of the module• Practice Problems on p. 175-176• Pre-Lab for Lab 2-5 on p. 55-56 of lab book.• Lab 1-2 including all post lab exercises and post lab analysis

10/20/17

Horizontal Projection Lab 2-5

Due In-Class Today	Homework for 10/27
<ul style="list-style-type: none"> • Lab 1-2 Post Lab • Pre-Lab 2-5 • Practice Problems from pg. 175-176 	<ul style="list-style-type: none"> • Read Module #6 • On Your Own Questions • Review Questions at the end of the module • Practice Problems on p. 215-216 • Lab 2-5 including all post lab exercises and post lab analysis

10/27/17

Review of Newton's Laws - time to ask questions and work problems over Newton's Laws of Physics. There will be possible in class activities if needed.

Due In-Class Today	Homework for 11/3
<ul style="list-style-type: none"> • Lab 2-5 • Practice Problems from pg 215-216 	<ul style="list-style-type: none"> • Pre-Lab for Lab 2-3 on p. 39-40 of lab book

11/3/17

Transmitted Forces Lab 2-3

Due In-Class Today	Homework for 11/17
<ul style="list-style-type: none"> • Pre-Lab 2-3 	<ul style="list-style-type: none"> • Read Module #7 • On Your Own Questions • Review Questions at the end of the module • Practice Problems on p. 249-250 • Pre-Lab for Lab 2-6 on p. 65-66 of lab book • Lab 2-3 including all post lab exercises and post lab analysis

11/17/17

Circular Motion Lab 2-6

Due In-Class Today	Homework for 12/4
<ul style="list-style-type: none"> • Lab 2-3 Post Lab • Pre-Lab 2-6 • Practice Problems from pg. 249-250 	<ul style="list-style-type: none"> • Read Module #8 • On Your Own Questions • Review Questions at the end of the module • Practice Problems on p. 285-286 • Pre-Lab for Lab 2-8 on p. 81-82 of lab book • Lab 2-6 including all post lab exercises and post lab analysis

12/4/17

Conservation of Energy Lab 2-8

Due In-Class Today	Homework
<ul style="list-style-type: none"> • Lab 2-6 Post Lab • Pre-Lab 2-8 • Practice Problems from pg. 285-286 	<ul style="list-style-type: none"> • Lab 2-8 including all post lab exercises and post lab analysis