

# Hybrid Format Physics 4A SYLLABUS

- **Schedule #s 52049 Spring 2017**
- **Lecture content on the class Canvas page**
- **Lab class: Thurs 11 – 1:50 in PHY 70**

## Contact Information:

- Instructor Name: Lauren J. Novatne
- Phone Number: 638 – 3641 ext. 3434
- Email: [lauren.novatne@reedleycollege.edu](mailto:lauren.novatne@reedleycollege.edu)

## Office hours:

- Tuesday 9:00- 10:00 AM Virtual Office Hour via email
- Wednesday 1 to 12:40 AM

## Required Course Materials:

- Textbook: “**Physics for Scientists and Engineers with Modern Physics**”, Giancoli, 4th edition, Pearson/Prentice Hall Publishers

## Course Objective:

This course covers the topics of classical mechanics, properties of matter, gravitation, fluid mechanics, oscillatory motion and mechanical waves.

Students will gain skills in understand the complementary roles of experimental investigation and theoretical explanation in science, apply dimensional analysis to determine the units for an unknown quantity or to check the validity of equations, correctly report the units of an observable when it is measured or calculated and distinguish between important physical observables, such as velocity, acceleration and force.

## Calendar:

- Holidays: Monday January 15<sup>th</sup>, Friday February 16<sup>th</sup> and Monday February 19<sup>th</sup>, March 26<sup>th</sup> – 29<sup>th</sup>
- May 14<sup>th</sup> - 18<sup>th</sup> Final Exams
- **LAST DAY TO DROP THIS CLASS: FRIDAY March 9th. AFTER THAT DATE, I MUST GIVE YOU A GRADE!!**
- **Final Exam: Thursday May17<sup>th</sup> at 11 AM in PHY 70 – the room where the class is held.**

## Exams:

There will be two midterm exams and one final exam. The exams have conceptual questions that are multiple choice in format. There are also some detailed physics problems that will need to be solved. The exams contribute **70%** of your semester grade, so they are very important to prepare for. Make up exams are discouraged. If you know that you will not be present in class for a scheduled exam, you must contact me PRIOR to the end of the class session within which the exam is given. Make up exams will be offered only for the occasion of your illness, a jury summons or an emergency (such as an auto accident). Otherwise, you will not be offered a make up exam.

## Laboratory:

This class has a lab that is mandatory. There are lab reports that will be mostly provided for you. You will turn them in when they are due, at the end of each session. The reports will constitute **10%** of your semester grade.

## Online Class Discussions:

There are online class discussions that are graded. These discussions cover several topics, and can be varied in type. Discussion accounts for **10%** of your grade. I will provide you with a rubric on how you will be graded for each discussion topic to assist you in getting the grade that you want. The objective of the discussions is twofold: 1) assist in creating the important sense of community in the class and 2) help you clarify your understanding of the discussion topics.

## In class problem solving:

There will be in class problem solving sessions for the first hour of our lab time, instead of homework assignments. The problems will be posted before the week before the class problem solving session, to allow you time to prepare. Copying the instructor solution's manual will not get you the points. You will be graded on what is observed while you are in class. The problem solving sessions will be worth **10%** of your grade.

## Essential Notes and Videos:

I will post notes and a screen capture video that use pictures and diagrams from the textbook. These videos will be about 15 minutes in length, and cover the minimum concepts and important computational skills needed for success in the class. You are expected to watch the videos and read the notes before the discussion topic is due. In addition to these "home brew" notes and videos, I will post links to other videos that I hope you find helpful in learning the material.

## Grading Policy:

% Grade for the Class	Letter Grade For the Class		Category of classwork	% of Class Grade
90 – 100 %	A		Exams	70%
80- 89 %	B		In class problem solving sessions	10%
65 – 79 %	C		Lab Reports	10%
55 – 64 %	D		Online Class Discussion	10%
0 – 54 %	F			

## Accessibility Accommodation

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the rehabilitation Act, please contact me as soon as possible.