

Physics 4B SYLLABUS

- **Schedule # 57215 Spring 2019**
- **Lecture class: Tuesday 11 – 12:50 & Thursday 11 – 11:50 and Friday 12 – 12:50 AM in PHY 70**
- **Lab class: Thursday 12 – 1:50 PHY 70**

Contact Information:

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

Office hours:

- Office hours: Tuesday and Thursday 9:30 - 11

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 21st, Friday February 15th, Monday February 18th, Monday through Friday April 15th – 19th Spring Break
- May 20th - 24th Final Exams week
- **LAST DAY TO DROP THIS CLASS: Friday March 15th.**

AFTER THAT DATE, I MUST GIVE YOU A GRADE!!

Final Exam: Tuesday May 21st at 11 Am in PHY 70 – the room where the class is

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 not available except in **documented extreme conditions**. Notes from doctors or police officers (for car accidents) or jury summons will be the type of documentation accepted to allow a make-up exam. 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.

In class problem solving:

There will in class problem solving sessions for many class sessions, instead of homework assignments. The problems will be provided for you as worksheets in class. You will be graded on what is observed while you are in class. The problem solving sessions will be worth **15%** of your grade.

Attendance:

Attendance is worth **5%** of your semester grade. You will be granted **3 excused absences**. An excused absence requires that you email me or leave a voice message **BEFORE** the end of the class that you are missing. I will **NOT** accept messages from your classmates – **YOU** need to contact me.

Essential Notes and Videos:

I will post notes and a screen capture video that uses 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	15%
65 – 79 %	C		Lab Reports	10%
55 – 64 %	D		Attendance	5%
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.