

Hybrid Format Physics 4B SYLLABUS

- **Schedule # 54006 Spring 2022**
- **Lecture classes: Online and Problem Solving Sessions via Zoom**
- **Lab class: Friday 1- 3:50 in PHY 70**

Contact Information:

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

Office hours:

Virtual office hour (contact me via email): Monday 10 – 11:30, Tuesday and Thursday 9 - 9:50

On campus office hours: Wednesday 3-4 PM and Friday 12:00 – 12:30PM PHY 71

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 and important dates:

- Monday 1-10 classes begin
- Mon 1-17 MLK Holiday
- Fri 1-21 Last Day to drop full term class for full refund
- Fri 1-28 last day to drop for full refund, "W" grade assigned
- Sunday Jan 30th Last day to drop a full term to avoid a "W" in person
- Friday Feb 11th Last day to change a class from Pass/No Pass grading basis
- Friday Feb 18th Lincoln Day holiday
- Monday Feb 21st Washington Day Holiday
- Friday Mar 11th Last day to drop a full term class – letter grade assigned after this date
- April 11th – 14th Spring Break
- Monday May 16th – Friday May 20th Final Exams Week

Final Exam: Wednesday May 18th at 1PM in PHY 70

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.

There are occasionally some activities and quizzes given in class, some are announced, and others are not. If you do not communicate with me *PRIOR TO THE END OF THE CLASS MEETING TIME* that you are not going to be present in class, then you will receive a score of ZERO for that quiz, and **you will not be able to make up the activity or quiz**. You may inform me in person, by phone (leave a message on my voice mail if I don't answer the phone), or by email. **Sending a message through a classmate or friend disqualifies you from the exemption**. This is YOUR grade, so YOU must communicate with me regarding your ability to be present. **I do NOT want to know why you will miss class – just that you will not be present**. You will only be able to use three "passes" for the entire semester. After you use up your three passes, you will receive zero points for your absence.

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 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 **20%** 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	20%
65 – 79 %	C		Lab Reports	10%
55 – 64 %	D			
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.