

PHY 2B – General Physics II

SYLLABUS

Class Hours/Room No TTh 2:00 p.m. – 4:50 p.m. PHYS 70

Class Number 57212
Instructor Gerald (Jerry) Rude
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Office R 1A
Office Hours Tuesday 1:00-1:55 pm in Annex 5
Thursday 1:00-1:55 pm in Tutorial Center
F 8:00 – 9:00a.m. Virtual: (email & teleconferencing)

Student Learning Outcomes

- 1) Apply algebra and trigonometry to solve physical problems in the following topics:
 - a) Vibrations and Waves
 - b) Thermodynamics
 - c) Electrostatics
 - d) Electric Fields
 - e) Electric Potential
 - f) Capacitance
 - g) Electric Circuits
 - h) Magnetism
 - i) Electromagnetic Induction
 - j) Electromagnetic Waves
 - k) Optics
 - l) Modern Physics

Objectives:

1. Use the appropriate language of physics and mathematics to solve problems in the areas of electricity, magnetism, light, and atomic and nuclear physics.
2. Perform simple physics experiments in the areas of electricity, magnetism, light, and atomic and nuclear physics to acquire understanding of more difficult concepts in general physics.
3. Apply basic physics concepts presented in lectures to the completion of problem assignments and lab reports.
4. Employ the scientific method in experiments in physics which yield results consistent with information presented in lectures.

Course Prerequisite:

MATH 4A - Trigonometry or MATH 4C - Trigonometry/Precalculus and eligibility for English 1A.
Physics 2A

PHY 2B – General Physics II**Textbook:**

Good news: your textbook for this class is available for free online! If you prefer, you can also get a print version at a very low cost.

Your book is available in web view and PDF for free. You can also choose to purchase on iBooks (it comes in two volumes) or get a print from OpenStax on Amazon.com.

You can use whichever formats you want. Web view is recommended -- the responsive design works seamlessly on any device. If you buy on Amazon, make sure you use the link on your book page on openstax.org so you get the official OpenStax print version. (Simple printouts sold by third parties on Amazon are not verifiable and not as high-quality.)

College Physics from OpenStax, Print ISBN 1938168003, Digital ISBN 1947172018,
www.openstax.org/details/college-physics

Canvas

Canvas is used for announcement and general class related information

Homework Assignments:

Homework is assigned on **Canvas** and is done on OpenStax Tutor. The link for signing up for OpenStax Tutor is available here: <https://tutor.openstax.org/enroll/992886/Physics-2B-Spring-2019-Spring-2019>
Homework is an important part of your Physics education. This is where you practice what you have learned during lecture and your reading. It makes up 20% of your final grade.

Laboratory:

This class has a lab that is mandatory. There are data sheets that you will need to complete as part of your lab activity that is due at the end of each lab session. You are required to follow a number of safety precautions in the laboratory. Lab makes up 10% of your final grade.

Participation:

Participation will be assessed every class period based on completion of the reading assignment assigned for that day's lecture, quizzes, attendance, and from worksheets. Participation makes up 10% of the final grade, please come to class prepared, with written notes from the reading assignment.

Tests:

There will be at least three midterm exams as well as a final exam. Early tests can be arranged with a very good reason. A more **difficult** late test can only be arranged if you have an excuse verified by an impartial party (i.e., a doctor or a court note). Tests make up 60% of your final grade.

PHY 2B – General Physics II**Grading:**

20% of the final grade points are from homework assignment

10% of the final grade points are from laboratory work

10% of the final grade points are participation points

60% of the final grade points are from chapter tests

Final grade is assigned using following scale:

90- 100% A

80- 89% B

70- 79% C

60- 69% D

< 60% F

- ❖ If you have perfect attendance and your grade is within 1 point (or 1%) of the next higher letter grade, the instructor will award you the next higher letter grade.

Important Dates:

Class begin	Monday	01/14/2019
Last day to register	Friday	02/01/2019
Last day to drop this class to avoid a “W”	Sunday	02/03/2019
Last date to drop this class	Friday	03/08/2019
No classes:		
	Monday	01/21/2019
	Fri-Mon	02/15 – 02/18/2019
	Mon-Fri	04/15 – 04/19/2019
Final Exam	Thursday	05/23/2019 2:00 pm – 3:50 pm

Attendance:

Attendance will be taken at beginning of each class. Students are expected to attend all class meetings, be on time, and be in class the entire class session. Students who leave the classroom before the end of class period will be counted as tardy.

Students will be dropped from the class if they fail to attend the first class session of the semester.

During the semester up to final drop date, any student who missed more than two weeks of class meetings will be dropped from this class (**4** classes).

Student Conduct:

Students are expected to conduct themselves in a responsible manner in the classroom. Specific rules and regulations have been established in Board Policy 5410. Failure to adhere to the accepted standards will result in disciplinary action. Campus Policies on Student Conduct is described in [Reedley College Class Schedule](#).

Accommodations for students with disabilities:

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.

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Plagiarism and Cheating Policy:

Cheating and plagiarism is prohibited in the class. Incidents of cheating and plagiarism will result in a failing grade on the particular examination or assignment in question. Two incidences of cheating will result in a failing grade for the class.