

Physics 11 Syllabus, Spring 2023

Physics 1: Introduction to Physics Problem Solving. An introductory class to help you prepare for future physics classes. We will cover basic mechanics, problem solving strategies and study methods to help you succeed in all of your science courses.

Instructor: Dr. Kevin Klapstein, Phone 707-567-1621

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Classroom: Lark 2004

Office Hours: **Monday:** 12:00-1:00; **Wednesday:** 12:00 to 1:00 and via email.

Additional office hours can be arranged by appointment.

Office hours will be in Lark 2039.

Required Texts: Physics, by Cutnell and Johnson. ISBN-13 978-0-470-87952-8.

Website: See Physics 1 class section on Canvas: <https://canvas.santarosa.edu/>

The class schedule, syllabus, homework assignments, pdfs of powerpoint lectures, handouts, and more are posted weekly on Canvas. Check it often as the schedule and assignments may change.

Homework: Homework is assigned for every chapter. Homework includes reading the chapter assigned *before* the lecture. We will be covering a lot of material so don't get behind. Chapter Homework assignments are due in class one week after the chapter is covered in class. Homework will be marked for completion (5 points) and for two or three randomly selected problems (5 points).

Exams: There will be two term exams and one final exam. The exams may be multiple-choice or short answer. You may have 1 page (both sides) of notes at the exam and a calculator. No makeups will be given. If unavoidable circumstances lead to a missed exam, collect appropriate documentation and schedule a meeting with me. The exams will be at the normal class times with the final exam taken during the scheduled final exam time.

Attendance: You are required by SRJC rules to attend class. You are allowed to miss 3 classes. Every 3 absences after that will lower your grade by 10 percent (that's a full letter grade!) This means that if you miss more than 9 classes you cannot earn higher than a C grade in the course no matter what your exam scores are. If you feel you will need to miss class you should take the course CR/NCR.

Participation: You will be broken up into small groups at the end of many classes. You will be expected to work with the other people in your group to solve problems. Leaving early is not allowed without explicit permission from the instructor.

Grading: Final grades will be based on the following percentages:

Final Exam	40%
Midterm Exams	50%
Assignments (book problems)	10%

Final letter grades will be roughly based on the following total percentages:

90-100: **A** 80-90: **B** 70-80: **C** 60-70: **D** below 60: **F**

Tentative Schedule – Subject to Change

Date	Chapter	Assignment
18-Jan	01	Focus on Concepts: 1, 5, 11, 12, 18. Problems: 6, 8, 17, 20, 24, 27, 29, 42, 55.
23-Jan	02	Focus on Concepts: 3, 6, 10, 24. Problems: 12, 18, 22, 28, 33, 34, 42, 48, 54, 60, 63, 67 and draw an x vs. t graph for problem 67.
25-Jan	02	
30-Jan	03	Focus on Concepts: 1, 3, 4, 6, 9, 14 Problems: 3, 11, 12, 14, 24, 25, 32, 35, 41, 48, 53, 54
1-Feb	03	
6- Feb	04	Focus on Concepts: 3, 7, 11, 13, 16, 18, 25. Problems: 1, 6, 11, 16, 21, 38, 44, 47, 59, 62, 69, 74, 81.
8- Feb	04	
13- Feb	04	
15- Feb	05	Focus on Concepts: 1, 3, 7, 8, 11, 15. Problems: 4, 12, 19, 22, 28, 29, 31, 38, 39.
22- Feb	05	
1- Mar	05	
6- Mar	Exam	
8- Mar	06	Focus on Concepts: 1, 8, 25. Problems: 6, 12, 13, 26, 38, 46, 49, 56, 59, 64, 66.
13- Mar	06	
15- Mar	06	
19- Mar	07	Focus on Concepts: 6, 7, 10, 13, 15. Problems: 7, 9, 12, 17, 26, 29, 30, 34, 44, 48.
20- Mar	07	
3- Apr	07	
5- Apr	08	Focus on Concepts: 3, 6, 10, 14, 15. Problems: 3, 13, 15, 20, 28, 34, 35, 43, 46, 50, 55.
10- Apr	08	
12- Apr	08	
17- Apr	09	Focus on Concepts: 3, 8, 18. Problems: 4, 10, 11, 16, 27, 44, 48, 53, 58, 65.
19- Apr	09	
24- Apr	09	
26- Apr	Exam	
1- May	25	
3- May	25	
8- May	25	
10- May	26	
15- May	26	
17- May	26	
22,24- May	Final	Section 5736 (1:30pm) May 24, Section 5366 (3:00pm) May 22