

UNIVERSITY OF VERMONT

Department of Physics

Physics 13

Spring 2023

General Information

Instructor: Jason Pepe, Innovation Hall 231

Phone: 656-8865

email: Jason.Pepe@uvm.edu

Office Hours: Mon, Wed 1:00-2:00 or by appointment

Materials:

- *Textbook:* "Conceptual Physics" by Paul G. Hewitt, 13th Edition, with MasteringPhysics registration code and etext.
- Learning Catalytics: a software extension of MasteringPhysics that will be used to deliver question and answer, tutorial, or simulation exercises
- Pocket calculator
- Smartphone, Tablet or Laptop (laptop preferred): You will need a device that can support a web browser to participate in Learning Catalytics exercises and MasteringPhysics assignments.

Course format:

- Three 50-minute meetings per week on Mondays, Wednesdays, and Fridays. Students are expected to prepare for class by completing assigned readings and pre-flight activities, including watching videos, short assignments, and/or quizzes. Selected homework problems to be completed after class will be assigned to consolidate the ledge, while balancing the additional time needed to complete the pre-class activities.

Homework:

Homework problems serve as illustrations of the course material and are essential towards consolidation of the students' grasp of physical principles. The course outline shows the homework assignments for each chapter.

Mastering Physics Homework and Pre-Lectures:

There will be weekly Mastering Physics online homework assignments. Late Mastering Physics assignments will not be accepted. There will be no make-ups. The lowest score will be dropped from the record. In addition to the homework, a Mastering Physics pre-lecture assignment will be given each week.

Mastering Physics course identification: pepe59908

Examinations:

There will be three midterm exams based on class material, Learning Catalytics exercises, homework, and textbook material. There will also be a final exam.

Course Grades:

For each student, a score will be computed based on 100 percentage points to be distributed as follows:

- Hourly exams: $3 \times 16 = 48\%$
- MasteringPhysics/Learning Catalytics: 36%
- Final examination: 16%

Numerical to Letter Grade Conversion:

Letter grades will be assigned as follows:

A range = 90 - 100

B range = 80 - 89

C range = 70

Missing Hourly Exams:

Missing a midterm exam will result in a score of zero unless the student has a valid excuse as defined above. A student with a valid excuse may be given a make-up exam at a time that is mutually convenient for the student and the instructor.

Missing the Final:

Chap. 31: 33, 34, 35, 44, 45, 50

Chap. 32: 23, 25

Chap. 33: 38, 42, 45, 46, 48, 76

Chap. 34: 33, 34, 37, 46

Chap. 35: 38, 40, 42, 48