UNIVERSITY OF VERMONT

Department of Physics

Physics 11

Fall 2022

General Information

Instructor: Jason Pepe, Innovation Hall 231

Phone: 656-8865

email: Jason.Pepe@uvm.edu

Office Hours: Mon, Wed 10:45-11:45 or by appointment

Materials:

- *Textbook*: "College Physics" by Knight, Jones & Field, 4th 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 with trigonometric functions, scientific notation and exponential functions.
- 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, Fridays and one 75-minute meeting on Tuesdays, Innovation E330. In contrast to traditional lectures, this course follows a flipped classroom model in which students spend most of their class time working through hands-on and group activities facilitated by the instructor and

Mastering Physics Homework Quizzes and Pre-Lectures:

On most weeks, there will be a Mastering Physics online homework quiz. Late Mastering Physics assignments will not be accepted. There will be no make up quizzes. In addition to the homework quizzes, a Mastering Physics pre-lecture assignment for each chapter will be given.

Mastering Physics course identification: pepe93031

Section A (8:30 MWF 8:30 T meetings):

Examinations:

There will be three midterm exams based on class material, Learning Catalytics exercises, homework, and textbonreW*nBT/F3e31a4 Tm0 g0 [(S)-3(e)4(c)4(ti)M gnBT1 0 0 1 90.024 657.7 T

overall attitude in the course.

Schedule of Meetings

STUDENTS MUST READ APPROPRIATE TEXTBOOK SECTIONS BEFORE CLASS.

Aug 29, 30	Chapter 1: **Representing Motion** Questions: 2,4,13 Problems: 2,9,12,22,24,35,43,65,70,75
Aug 31 Sept 2, 6	Chapter 2: **Motion in One Dimension** Q: 4,5,8 P: 3,14,18,24,28,30,32,39,52,61,78,81
Sept 7, 9, 12, 13	Chapter 3: **Vectors and Motion in Two Dimensions** Q: 6,11,17 P: 1,10,17,28,33,43,47,48,61,63,66,71
Sept 14, 16	Chapter 4: **Forces and Newton's Laws of Motion** Q: 6,7,9 P: 5,10,15,20,24,33,34,43,45,52,58,65
Sept 19, 20, 21	Chapter 5: **Applying Newton's Laws** Q: 9,14,21 P: 4,5,20,25,26,28,33,43,46,75,79,82

Sept 28 **EXAM I**

Nov 1, 2, 4	
Nov 9	**EXAM III - Chapters 10,11,12 – 6:40 pm**
Nov 8, 9, 11, 14	Chapter 13: **Fluids** Q: 5,15,16,21 P: 3,13,20,23,27,31,33,35,39,55,56,58
Nov 15, 16, 18, 28	Chapter 14: **Oscillations** Q: 13,14,22 P: 3,4,13,14,19,23,24,29,35,46,60,61,65
Nov 29, 30 Dec 2	Chapter 15: **Traveling Waves and Sound** Q: 6,13,16 P: 1,19,22,24,30,32,36,41,44,47,54,58,61
Dec 5, 6	Chapter 16: **Superposition and Standing Waves** Q: 4,12,15 P: 1,10,16,18,19,24,26,30,31,33,37,43,45,57
Dec 7, 9	**Summary - Course Evaluation; Final Review**
Dec 12	**Final Exam – TBA**