

Physics 12 is an algebra-based exploration of electricity, magnetism, optics, & modern physics.

Class: MWF 1:10-2:00 & T 1:15-2:30 in Innovation E330

Evening Midterm Exams on Wednesdays: 2/16, 3/23, 4/13 at 6:40 pm in Billings LH



Instructor: Dr. Donforth

Office: Innovation 227

Phone: 656-0052

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Office Hours: Monday 10:00 - 11:30 & Tuesday 10:00 - 11:30

Please handle re-grade requests via email.

Materials:

- *Textbook:* "College Physics" by Knight, Jones & Field, 4th Edition, with MasteringPhysics registration code and e-text.

MasteringPhysics course identification: donforth54160

- 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:

This is an active learning class where we expect you to have familiarized yourself with the material before it is discussed and worked-on in class. Students are expected to prepare for class by completing assigned readings and pre-class activities (including watching videos, short assignments, and/or quizzes). Selected homework problems to be completed after class will be assigned to consolidate the students' knowledge.

Please refer to the schedule (posted on Blackboard & Mastering Physics) to see when chapters will be covered, pre-class readings are due, homework is to be completed, etc.

Homework:

Homework problems serve as illustrations of the course material and are essential towards consolidation of the students' grasp of physical principles. Homework will be assigned, completed, collected, and graded via Mastering Physics

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. The lowest score will be dropped from the record. In addition to the homework quizzes, a Mastering Physics pre-lecture assignment for each chapter will be given.

Examinations:

There will be three midterm exams based on class material, Learning Catalytics exercises, homework, and textbook material. An equation sheet will be provided for each exam. There will also be a comprehensive final exam.

Course Grades:

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

- Hourly exams: $3 \times 11 = 33\%$
- Mastering Physics prelectures: 9%
- Learning Catalytics: 26%
- Mastering Physics Homework Quizzes: 16%
- 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 - 79

D range = 60 - 69

F = below 60

Extra Credit: Extra credit work will not be assigned for the course.

Attendance:

Students are expected to attend all classes and participate in group activities. A student's attendance record provides additional information for assessing a student's overall attitude in the course. It will be used for advising, for documentation in a letter of reference, etc. It is the student's responsibility to keep up with missed material, announcements, etc.

Excuses:

Circumstances beyond a student's control may warrant an absence. Valid excuses for such absences are notes from the academic dean, the attending physician, the team coach, the officiating clergyman, the presiding judge, the arresting officer, etc.

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:

Missing the final examination will result in a final course grade of F unless the student has arranged with the instructor through the appropriate academic dean for an "Incomplete."

Religious Holidays:

Students have the right to practice the religion of their choice. If you need to miss class to observe a religious holiday, please submit the dates of your absence to me in writing by the end of the second full week of classes. You will be permitted to make up work within a mutually agreed-upon time. <https://www.uvm.edu/registrar/religious-holidays>

Discrimination:

The University of Vermont, including its Schools and Colleges, seeks to maintain a safe learning, living, and working environment. To that end, the University of Vermont strictly prohibits discrimination against, and harassment of, its students, employees, and affiliates on the basis of an individual's membership in a legally protected category as defined in the University's Equal Opportunity in Educational Programs and Activities and Equal Employment Opportunity/Affirmative Action Policies. Any act that falls within the definition of Sexual Misconduct constitutes discrimination or harassment and is a violation of this Policy. Furthermore, the University strictly prohibits retaliation. For more information and resources, please refer to [the University's discrimination policy](#).

Academic Integrity:

Academic dishonesty will not be tolerated. Perceived failures to abide by the standards of academic integrity will be prosecuted as set forth in the University of Vermont [Code of Academic Integrity](#). The code states the four standards of academic integrity: that students may not plagiarize, fabricate, collude, or cheat. Note that there is a great but subtle difference between collusion and collaboration. Collaboration is one of the greatest tools for learning and creativity and is highly encouraged. Collaboration will help you to expand your perspective and your arsenal of problem solving techniques. Violations of the code harm you, your education, your peers, and the institution.

Student Learning Accommodations:

In keeping with University policy, any student with a documented disability interested in utilizing ADA accommodations should contact Student Accessibility Services (SAS), the office of Disability Services on campus. SAS works with students and faculty in an interactive process to explore reasonable and appropriate accommodations, which are communicated to faculty in an accommodation letter. All students are strongly encouraged to meet with their faculty to discuss the accommodations they plan to use in each course. A student's accommodation letter lists those accommodations that will not be implemented until the student meets with their faculty to create a plan. Due to the format of the exams, if extra time is needed you are strongly encouraged to discuss your options with the course instructor as soon as possible.

Contact SAS:

A170 Living/Learning Center

802-656-7753

access@uvm.edu

<https://www.uvm.edu/access>

Thank you:

I appreciate that you're here taking physics with us. For many of you, this is a requirement for your major or future plans - experts in your field of study have decided that this information is important for what you want to do. It is my belief and experience that comprehension of physics concepts and principals allows you to more fully understand and engage with the universe. While you may not use physics every day, it is my hope that you succeed in the course and move on with useful tools to make meaning and sense of the world around you. I look forward to exploring physics with you.