

Physics 11 Introductory Physics I – Spring 2024

Department of Physics, Lehigh University

Michael Stavola

Rm 214 Lewis Lab (office),
Telephone: (610) 758-3909, **E-mail (preferred): mjsa**

Recitation Instructor and Section Number: _____

Textbook: *University Physics*, 15th ed., Volume 1, by Young and Freedman

Course requirements: Lectures on Mondays and Wednesdays will cover new material. Tuesday and Thursday classes will usually be for discussion of homework solutions and problem-solving methods. Attending all lectures is encouraged. Attendance at recitations along with the timely submission of assignments is required. (50 points are given for recitation attendance.)

Coursesite: There is a coursesite for Physics 11. Lecture recordings, homework assignments, solutions, class notes, equation sheets, exam review materials, and sample exams will be posted there.

Office hours with the course instructor or your recitation instructor will be conducted in person.

Reading assignments: You should review class notes and attempt to complete reading assignments *before* the material is discussed in lecture.

Homework: Submitted before lecture time on Mondays and Wednesdays to bin labeled with your section number in our lecture room. Put your section number and instructor name on your paper.

Your goal should be to learn physics sufficiently well so that you will be able to solve physics problems *by yourself* on the exams.

- 1) The assignments are graded primarily on whether you've made a serious effort instead of numerical accuracy. So you should attempt all problems.
- 2) Start working on the assignments *early* so that if you get stuck, you have time to discuss the problems with your classmates or recitation instructor.
- 3) Working on homework in collaboration with classmates is allowed, even encouraged. But remember, you will be expected to solve exam problems by yourself. And it is by struggling with homework exercises that you learn the material. *Copying homework will not help you learn what you need to know to do well on exams.*

Quizzes: Six quizzes will be given during your TTh recitations. The quiz questions will be similar to homework problems. The numbers in parentheses on the syllabus indicate the homework assignments covered by that quiz. Only your highest five quiz scores will count toward your final course grade.

Hour Tests: Two, one-hour in-class exams will be given. If an hour test must be missed for a valid reason (illness or death in the family), we will arrange a make-up exam for you. **The exams will be "closed book"** and you will be supplied with an equation sheet. There will be a 1.5 hr final exam.

CONTENTS: Physics 11 is the first semester of Lehigh University's two-semester, calculus-based, introductory physics sequence. In Physics 11, two broad subject areas are covered, MECHANICS [including kinematics, Newton's laws, energy, momentum, rotational mechanics (kinematics / dynamics / energy / angular momentum), statics, gravity, and oscillations] and THERMODYNAMICS (including specific heat, latent heat, calorimetry, heat transfer, kinetic theory, the First and Second Laws of Thermodynamics, entropy, and thermodynamic machines)

Grading: Numerical grades will be determined as follows:

Hour Exam 1	100
Hour Exam 2	100
Quizzes (highest 5 out of 6)	100
Homework	50
Final Examination	150
Recitation attendance	50
TOTAL	550

Course schedule: The following pages provide the due dates for reading assignments and the dates for quizzes and hour exams. The numbers in parentheses after the quiz dates indicate the homework assignments to be covered on that quiz.

Tutoring resources: TAs for phy 11 are your best resource for help outside of class. The Center for Academic Success (<http://studentaffairs.lehigh.edu/success>) also offers tutoring for Physics 11.

Academic behavior: All work on quizzes and exams is required to be strictly your own work. The use of cell phones and any other communication tools is not permitted during quizzes or exams. Cheating on an exam will earn an F as the semester grade.

Athletes: Please send sports evaluation forms to your **recitation instructor**.

Religious holidays:

1. Inform your recitation instructor if you will be absent due to observance of religious holidays.
2. Arrange with the instructor to complete assignments and any required make-up work.

Accommodations for Students with Disabilities

Lehigh University is committed to maintaining an equitable and inclusive community and welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact Disability Support Services (DSS), provide documentation, and participate in an interactive review process. If the documentation supports a request for reasonable accommodations, DSS will provide students with a Letter of Accommodations. Students who are approved for accommodations at Lehigh should share this letter and discuss their accommodations and learning needs with instructors as early in the semester as possible. For more information or to request services, please contact Disability Support Services in person in Williams Hall, Suite 301, via phone at 610-758-4152, via email at indss@lehigh.edu, or online at <https://studentaffairs.lehigh.edu/disabilities>.

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