

Physics 213: General Physics III
Spring Term 2023
249 Jorgensen Hall, 12:30-1:20 M W F

Lecturer: Dan Claes, JH 258G, Ext 2-2783 dclaes@unl.edu

Student (Office) Hours: JH 258G, Wednesday and Friday 2:00-3:30, or by appointment

Textbook: *Modern Physics*, Kenneth Krane, John Wiley & Sons (4th Edition).

Chapter 1 reviews material from PHYS 211-212 that we will be building upon. You need to read this chapter carefully. Your first homework assignment is a set of Chapter 1 problems. Lectures start immediately with Chapter 2. The first recitation will look at those concepts.

**An iClicker (or iClicker app) is required for this class, as is your participation.
The iClicker channel used in our classroom is BC.**

Lecture Schedule: A tentative semester schedule is posted on Canvas and will be updated as needed. Bookmark our Canvas site, refer to it often! Announcements, schedule changes, additional explanations, answers to questions asked of me outside of class that I feel everyone might benefit from, and other useful information will be posted there regularly.

Attendance: Regular attendance is expected. Pedagogical research into *physics learning* has shown that **active engagement** in a class (rather than a passive “listening” or just note-taking role) accelerates and enhances student learning and long-term retention. Rather than drawn out lectures, we rely quite heavily on in-class concept questions. An **iClicker** (remote or phone app) is a requirement for the course. These are available at the University bookstore. Please read the instructions on how to register your device.

Exams: Three one-hour “midterms” are scheduled during regular class periods, with a two-hour final. No notes or crib sheets will be allowed. Tables of all relevant equations and information will be provided *for you* when you take your exam.

Exam I	Friday, February 17	In class
Exam II	Friday, March 10	In class
Exam III	Wednesday, April 19	In class
Final Exam	Wednesday, May 17	3:30 – 5:30pm

Homework: Homework will be due every Wednesday, by class time, and must be delivered to me, my office, my mailbox, or the Department of Physics front office (208 Jorgensen). *Late work* will be corrected, but no grade will be recorded. If you feel you have a legitimate excuse for late work, I must hear it **before** the work is due.

If you find yourself spending more than 30 minutes on a single homework problem, *get help*. Help is available during my office hours, your TA’s office hours, and in the Physics Resource Center – 2nd floor corridor outside rooms 233-239 (hours will be posted shortly). You are responsible for knowing the material on the homework. In other words the exams will assume that the HW problems have been worked on, digested and understood.

Recitations: Recitation sections (Monday afternoon, one floor down, immediately following class) consist of group problem work. The TA will set up groups, which will change (~monthly) through the semester. You will be graded both for participation in the group (as judged by the TA) as well as the work handed in by your group.

For those with regular attendance (as recorded by iClicker) your 2 lowest HW and Rec scores will be dropped in computing your averages at the end of semester. This may not change your grade by much, but certainly matters for those near a letter grade cutoff.

Communication: I make heavy (almost daily) use of CANVAS announcements, often following-up questions from class or sharing my answers to those raised outside of class.

Students with disabilities are encouraged to contact the instructor for a confidential discussion of their individual needs for academic accommodation. It is the policy of the University of Nebraska-Lincoln to provide flexible and individualized accommodation to students with documented disabilities that may affect their ability to fully participate in course activities or to meet course requirements. To receive accommodation services, students must be registered with the Services for Students with Disabilities (SSD) office, 132 Canfield Administration, 472-3787 voice or TTY.

Grading: Grades will be determined from a 700 point total as follows:

Hour exams (3 x 100)	300
Homework	100
Recitations	100
Final Exam	200

General: This course draws heavily on Physics 211-212. If you have trouble with it's content, come and see me ASAP or get help, so that you are not lost as the semester goes on.

I assume that you will spend approximately 12 hours/week *outside of class* reviewing the subject matter, doing homework and studying. You must read the appropriate parts of the text before coming to class and the pace of the class will assume that you will have done so. Your role is to come to class prepared having read the relevant parts of the chapter. My role is to assess understanding, by using the in-class concept questions as well as any further input from you.

See

<http://go.unl.edu/coursepolicies>

for information on University-Wide Course Policies and Resources.

STUDENT CODE OF CONDUCT (<http://stuaafs.unl.edu/ja/code/three.shtml>)

ANY INSTANCE OF ACADEMIC DISHONESTY WILL RESULT IN A FAILING GRADE FOR THE COURSE. Academic dishonesty, as defined below, includes copying homework either from another student or from existing solutions, whether published or not. Students are allowed to discuss homework with each other, but copying homework is considered cheating.

4.2 Academic Dishonesty

- a. The maintenance of academic honesty and integrity is a vital concern of the University community. Any student found guilty of academic dishonesty shall be subject to both academic and disciplinary sanctions. Academic dishonesty includes, but is not limited to, the following:
 1. **Cheating:** Copying or attempting to copy from an academic test or examination of another student; using or attempting to use unauthorized materials, information, notes, study aids or other devices for an academic test, examination or exercise; engaging or attempting to engage the assistance of another individual in misrepresenting the academic performance of a student; or communicating information in an unauthorized manner to another person for an academic test, examination or exercise.
 2. **Fabrication or Falsification:** Falsifying or fabricating any information or citation in any academic exercise, work, speech, test or examination. Falsification is the alteration of information, while fabrication is the invention or counterfeiting of information.
 3. **Plagiarism:** Presenting the work of another as one's own (i.e., without proper acknowledgment of the source) and submitting examinations, theses, reports, speeches, drawings, laboratory notes or other academic work in whole or in part as one's own when such work has been prepared by another person or copied from another person.
 4. **Abuse of Academic Materials:** Destroying, defacing, stealing, or making inaccessible library or other academic resource material.
 5. **Complicity in Academic Dishonesty:** Helping or attempting to help another student to commit an act of academic dishonesty.
 6. **Falsifying Grade Reports:** Changing or destroying grades, scores or markings on an examination or in an instructor's records.
 7. **Misrepresentation to Avoid Academic Work:** Misrepresentation by fabricating an otherwise justifiable excuse such as illness, injury, accident, etc., in order to avoid or delay timely submission of academic work or to avoid or delay the taking of a test or examination.
 8. **Other:** Academic units and members of the faculty may prescribe and give students prior notice of additional standards of conduct for academic honesty in a particular course, and violation of any such standard of conduct shall constitute misconduct under this Code of Conduct and the University Disciplinary Procedures.