

Northern Illinois University

Course Syllabus for Physics 210 --- Mechanics & Heat

Spring Semester, 2022

Instructor: Dennis Eugene Brown

Faraday West 208W and/or 213W

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Office Hours: TTh 10-12:30pm

tel: 630-910-5512

Physics 210 WebPage: www.niu.edu/brown

Course Textbook: College Physics (OpenStax) **Author:** Urone & Hinrichs

Location: <https://openstax.org/details/books/college-physics>

Online Homework: Expert TA: <https://theexpertta.com>

We will be covering the following material in OpenStax: (Tentative Schedule)

Kinematics (1 dimension):	Chapter 1&2
Kinematics (2 dimensions):	Chapter 1&3
Quiz #1	
Newtonian Mechanics:	Chapter 4&5
Rotational Motion:	Chapter 6
Rotational Dynamics:	Chapter 9&10
Quiz #2	
Conservation of Energy:	Chapter 7&10
Conservation of Momentum:	Chapter 6&10
Fluids:	Chapter 11&12
Quiz #3	
Temperature & Ideal Gases:	Chapter 13
Heat:	Chapter 14
Thermodynamics:	Chapter 15

Final Exam (Thursday, May 12, Noon-1:50 p.m.)

No labs will be accepted after the last day of classes (May 6, 2022, 12:00midnight)

Problem Sets will be posted on www.niu.edu/brown every week, and they will be due one week later at the beginning of the class (**not at the end of class**). Late homework will be penalized 10% per day (however, *the problem sets just before quizzes&exams*—and the final problem set will not be accepted late).

All quizzes and exams are closed book, and closed notes. Graphics Calculators and Cell Phones will not be allowed, only scientific calculators can be used.

Tentatively: All Problems Sets will make up 25% of the **lecture** grade

Each quiz “ “ 15% ” ”

Final Exam “ “ 30% “ “

Lecture grade will make up 75% of the **final** grade

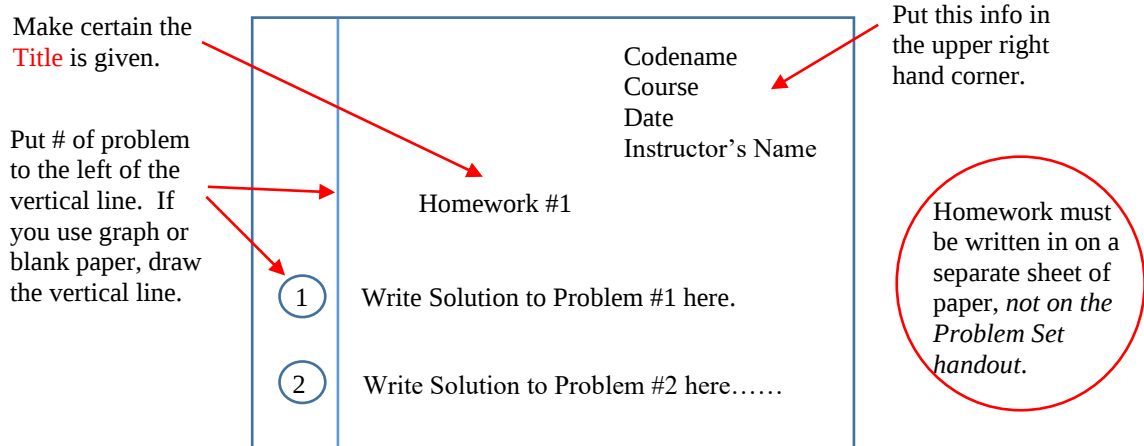
Lab will make up 25% of the **final** grade

The lowest scoring Problem Set will not be counted towards the final grade.

There are Physics Tutors available in Faraday East Room 251

Additional Notes:

- (1) When the solutions are posted on Blackboard, late homework will no longer be accepted.
- (2) When graded problem sets are handed back to students in class, late homework for that problem set will no longer be accepted.
- (3) Do not put any homework in the box outside my door—I may never see it and it will get mixed up with graded work. If I am not in my office and you wish to turn in a problem set, slide it under my door or have it put in my office mailbox.
- (4) All labs are to be handed in to your Lab TA. Do not hand any labs to me.
- (5) You will be asked for a codename at the beginning of class. Put this codename on your homework. Do not put your real name or ZID on homework (or you will be penalized).
- (6) Homework must be stapled (or you will be penalized). Homework should have the following format (or you will be penalized up to a maximum of 50% per assignment):



- (7) Only put your Codename (not your actual name or ZID) on Quizzes & Exams. Also, the solution to each problem is to be put on separate pages in the blue booklet. There will be a maximum of 10 points deducted for each quiz & exam for not following these rules.

ACCESSIBILITY: Northern Illinois University is committed to providing an accessible educational environment in collaboration with the Disability Resource Center (DRC). Any student requiring an academic accommodation due to a disability should let his or her faculty member know as soon as possible. Students who need academic accommodations based on the impact of a disability will be encouraged to contact the DRC if they have not done so already. The DRC is located on the 4th floor of the Health Services Building, and can be reached at 815-753-1303 or drc@niu.edu.

HONOR CODE: Be aware of the policies and procedures regarding your rights as well as responsibilities that are published in the NIU Student Code of Conduct, which is available on line at: <https://niu.edu/conduct/pdf/niu-scc-final.pdf>.

Working with other students on homework is encouraged, but outright copying (plagiarism) of other student's work is strictly forbidden and will be reported to the NIU administration.

WHAT DO I DO IF A STUDENT COMES TO CLASS AND **ISN'T WEARING A FACE MASK?**

Step 1.

Gently approach the student — exercising social distancing — and ask them to put on a face mask. Remind the student of the Protect the Pack Pledge they agreed to.



Step 2.

If the student doesn't have a face mask, offer them one of your disposable masks. Disposable masks are available in your department office and you should always have a few with you.

Step 3.

If the student refuses to wear a mask, politely ask the student to please leave the class.

Step 4.

If the student refuses to leave the class, explain that your only option is to cancel class and send all the students in attendance home. Then cancel and dismiss class for the day.

someone who claims a medical reason should be directed towards Roslyn Snell