Physics 2A Syllabus Winter 2026

Instructor: Juming Jiao

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Lecture Hours: MTWR 9:30-10:20 am (S35)

Lab Hours: TR 10:30-11:20 pm (S11)

Office Hours: W 10:30-11:20 am (S13)

Final Exam Date: 9:15-11:15 am Tuesday, March 24

Text Book: FUNDAMENTALS OF PHYSICS, 9th Edition, Vol. 1, Halliday/Resnick/Walker

Prerequisites: High school trigonometry or Mathematics 51 and May be taken Mathematics 1A

OBJECTIVE: This course covers the concepts of energy, momentum, and angular momentum—three conservation laws of classical mechanics.

It includes kinematics, vectors, problem solving techniques, mathematical techniques, and various definitions, as well as oscillations and waves.

It will cover Chapters 2–11, 13, and 15.

ATTENDANCE: You are expected to be here at the beginning of each class.

If you miss more than four lectures, you may be dropped from the class.

It is your responsibility to ensure being dropped or withdrawn from the course in order to avoid an "F" in the course.

The last day to drop a class with a "W" is Friday, Feb 27.

HOMEWORK: Homework will be assigned for each chapter, but it will not be collected.

It's your responsibility to complete it by the expected date. It is essential to your success in this course that you put solid effort into the homework.

If you are having difficulties with homework, I am available for help during my office hours.

QUIZZES: There will be 6 quizzes from Chapters 2-11.

The quiz with the lowest grade will be dropped. Each quiz consists of one problem from lectures or homework.

Therefore, it is to your advantage to attend each lecture and complete homework assignments.

EXAMS: There will be two mid-term exams and one comprehensive final; all exams are closed book tests!

To pass the class, you must take all the exams. There are no make-up exams without prior consent from the instructor.

You can send an email or leave a message before the exam time in case of an emergency.

Students who fail to show up for the final exam will receive a grade of "F" for the course.

ACADEMIC HONESTY: If a student is found cheating, a ZERO will be assigned to the work.

Using unauthorized notes, copying another student's work, or letting another student copy your work are all considered forms of cheating.

If you are caught cheating on a quiz or exam, you will receive a "zero" as your final grade on that quiz or exam.

If you are caught cheating a second time, you may receive an "F" in the course. I reserve the right to assign seats during exams.

LAB: Lab attendance is mandatory.

A student with two unexcused absences of lab may be dropped from the class.

Quadrille-ruled lab notebook and scientific calculator are required.

The 11th week will be the lab final.

GRADING: The grade distribution is as follows:

Quizzes 20%

Lab 20%

Mid-terms 20% each

Final 20%

Grades will be determined as follows:

A: 88-100%

B: 75-87%

C: 60-74%

D: 50-59%

F: 0-49%

Student Learning Outcome(s):

• Critically examine new, previously un-encountered problems, analyzing and evaluating their constituent parts, to construct and explain a logical solution utilizing, and based upon, the fundamental laws of mechanics.

• Gain confidence in taking precise and accurate scientific measurements, with their uncertainties, and then with calculations from them, analyze their meaning as relative, in an experimental context, to the verification and support of physics theories.

Office Hours:

W,TH	10:30 AM - 11:20 AM	S13
W,TH	10:30 AM - 11:20 AM	S13