

University of Maryland - Department of Physics

Spring 2019 Prof. Carter Hall Physics 410

Title: *PHYS 410 Classical Mechanics*. Theoretical foundations of mechanics with extensive application of the methods. Various mathematical tools of theoretical physics. (4 credits)

Prerequisites: *PHYS373 Math Methods for Physics II*.

Instructor: Prof. Carter Hall, Office: Physical Sciences Complex 2114, Phone: x5-6103, email: crhall@umd.edu.

TA (grader): Kungang Li, 0220 John S. Toll Physics Building, Phone: x5-5969, email: kungang@terpmail.umd.edu.

Office hours: My office hours will be Mondays from 2 to 4 pm, and by appointment. You are also welcome to come to my office without an appointment.

Schedule: 3 meetings weekly:
T, Th: 11 am - 12:15 pm (PHYS 0405) and
F: 10 am - 10:50 am (PHYS 0405)

Text: *Classical Mechanics*, John R. Taylor, University Science Books, (2005) ISBN: 9781891389221

Website: <http://www.physics.umd.edu/courses/Phys410/Hall-Spring-2019/>

Grades: Will be maintained on <https://www.elms.umd.edu/>

Homework: There will be a total of 11 homework assignments. The assignments will be posted on the course website each Tuesday, and will be collected in class the

following Tuesday. No homework will be due the week following an exam. Policies:

- Homework will not be accepted electronically.
- Late homework may not be accepted at the instructor's discretion.
- If you use a computer and you have trouble printing your results, you may sketch your results by hand. Printer failure will not be accepted as an excuse for late homework.

Instructor lecture notes will be posted on the course website.

Use of laptop computers and other devices during class is discouraged. If you need to use a device during class, please come see me.

Exams: There will be three in-class mid-term exams and a final exam. The mid-term exams will be held on Thursday February 21, Thursday March 28th, and Thursday April 25th. The final exam will be held on Thursday May 16th from 8 to 10 am in PHYS 0405.

Credit: Midterm exams 1, 2, and 3 are worth a total of 40%, homework is worth 40%, and the final exam is worth 20%.

Grading Scale: A ten-point grading scale will be used to assign final letter grades, with the “-“ and “+” grades reserved for the lowest three and highest three points in each bracket. For example, 87% to 89% will be a B+, 83% to 87% will be a B, and 80% to 83% will be a B-.

Academic Integrity. All university policies regarding student rights and obligations, including academic integrity (cheating), are available at:
<http://www.ugst.umd.edu/courserelatedpolicies.html>