

# Course Syllabus

## Syllabus

### Physics 1C, Winter 2023

#### Instructor

**David Hamilton**

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Office hours: [Insert Office Hours] in office and Zoom (805 064 1570)

#### Teaching Assistants

**Chau Dao**

Office: Knudsen 6-107

Email: [chaunbdao@g.ucla.edu](mailto:chaunbdao@g.ucla.edu) (<mailto:chaunbdao@g.ucla.edu>)

Office hours:

#### Class Schedule

MTWF 1:00pm-1:50pm in KNSY PV 1240B

#### Discussion Sections

Teaching Assistant	Section: Location/Hours
Chau Dao	<b>2A:</b> PAB 2-434/Tuesday/2:00pm-2:50pm
Chau Dao	<b>2B:</b> PAB 2-434/Tuesday/3:00pm-3:50pm
Chau Dao	<b>2C:</b> PAB 2-434/Tuesday/4:00pm-4:50pm

#### Required Textbook

Young and Freedman "University Physics" (15th edition)

**Note: This course is part of the UCLA Inclusive Access program.** Your course materials are being automatically provided to you, digitally, through the course website/BruinLearn before the first day of class or upon enrollment. The materials are being provided at a reduced and highly competitive price. You will receive e-mail from the UCLA Store with program details and cost sent directly to your email address on file with the UCLA Registrar. It is your responsibility to read all communication coming from the bookstore. Check your spam folder if not received.

Everyone enrolled in this course is automatically a participant to start and will have access to the materials through 2nd week of class. Those remaining in the program after 2nd week will be billed for the materials directly to their BruinBill account and will continue to have accesses to the course materials. **If you do not wish to participate in Inclusive Access, you must opt-out by the Friday of 2nd week opt-out deadline or you will be billed.** Those who opt-out will lose access to the digital materials starting week 3 and will be responsible for getting the materials on your own.

**Do not** pay for your materials through the publisher website unless you are opting out of Inclusive Access. If the link provided requires an access code, it will be delivered to you in your welcome e-mail from the bookstore. All Inclusive Access course materials will be billed to your BruinBill account.

Any questions regarding the Inclusive Access program can be directed to [inclusiveaccess@asucla.ucla.edu](mailto:inclusiveaccess@asucla.ucla.edu) (<mailto:inclusiveaccess@asucla.ucla.edu>).

## Course Outline

From the [course description \(https://www.pa.ucla.edu/physics-series-1-and-5.html\)](https://www.pa.ucla.edu/physics-series-1-and-5.html) online:

Week	Chapters	Topics Covered
1	27	Magnetic Fields and Magnetic Forces
2	28	Sources of Magnetic Fields
3	29	Electromagnetic Induction, Faraday's Law
4	30, 31	Inductance, Alternating Current (AC) Circuits
5	32	Electromagnetic Waves
6	33	The Nature and Propagation of Light
7	34	Geometrical Optics
8	35, 36	Interference, Diffraction
9	37	Special Relativity
10		Special Topics

## Grading

There will be weekly homework assignments, weekly worksheets in discussion sections, two midterms, and a final exam:

Assignments	Weight
Homework	20%
Worksheets	5%
Midterm 1	20%
Midterm 2	20%
Final exam	35%

The grading will be on a straight scale, with a minimum A level at 93%, B at 83%, C at 73%, and D at 63%. A curve to the final grades will only be applied if the class average is significantly lower than the aimed average of a B. Homework grades will be automatically handled via Mastering Physics. For all other components, the grading will be handled online via Gradescope.

There will also be an extra credit participation grade worth 1% of your final grade for completing course evaluations. I will also round up your grade if it is within 0.5% of the next letter grade.

## Lectures

Lectures will concentrate on developing core concepts, demonstrations, and example problems. Recordings of the lectures will be posted on BruinLearn through Zoom, along with the notes and slides used. The Zoom link for the class may be accessed on BruinLearn, and the password is **phys1cw23**.

## Piazza

We will be using Piazza for class discussion. The system is highly catered to getting you help fast and efficiently from classmates, the TA, and myself. Rather than emailing questions to the teaching staff, you are encouraged to post your questions on Piazza. You can find our Piazza discussion board on BruinLearn.

## Homework

Weekly homework assignments will be online through Mastering Physics. They will be assigned on Mondays, and due the following Monday at 11:59pm. Homework assignments will have their due dates extended if the material on the homework assignment is not covered in lecture by the end of the corresponding week for the assignment. For extensions on an individual basis, please contact the instructor.

You are encouraged to work with other students on the assignments, and to go to office hours for either the instructor or the TA's if you need help with the problems. Each problem grants 10 attempts with no penalty for incorrect answers, and late homework assignments will be penalized by 2% for every hour late. The lowest homework grade will be dropped.

## Worksheets

Weekly worksheets will be given during discussion sections. You are encouraged to work in groups and participate in discussions. Worksheets will be graded based on whether or not a reasonable effort was put forth towards completion, with a satisfactory effort receiving a grade of +1 and unsatisfactory receiving a 0. The two lowest worksheet grades will be dropped.

## Exams

Midterms will be held in class on the dates given below. All exams will be closed note, and the final exam will be cumulative. For midterm exams, you are allowed to bring a single, two-sided, letter paper-sized (11"x8.5") cheat sheet, and for the final exam you may bring two sheets. Physical constants will be provided to you on exams, so do not waste space on your cheat sheets writing them down. Practice exams and review sessions will also be provided for each exam. Exams may be curved on an individual basis if the average is low.

Make up exams are allowed for medically excused absences, **but you must provide a doctor's note**. For other situations resulting in a missed exam, such as traveling, please contact the instructor prior to the exam to arrange for taking the exam at a later time. **Exams cannot be made up after the solutions are posted on BruinLearn**, so an exam will instead be dropped from your final grade if it is missed, but **you must provide documentation of your absence from a medical or mental health professional**.

Exam	Date	Location/Time
Midterm 1	January 30	KNSY PV 1240B 1:00pm-1:50pm
Midterm 2	February 27	KNSY PV 1240B 1:00pm-1:50pm
Final	March 20	TBA 8:00am-11:00am

## Pre/Co-requisites

Prerequisites: Physics 1A, 1B; Mathematics 31B, 32A, 32B

Corequisites: Mathematics 33A