

Los Angeles City College, Fall 2025
 PHYS 06 *General Physics I*, 4 Units
 Lab Sec 11194 (3 hrs) M 2:20 PM – 5:30 PM, Sci 200
 Lect Sec 11195 (3 hrs) W 2:20 PM – 5:30 PM, Via ZOOM

INSTRUCTOR: Roy W. Erickson, 1st choice: CANVAS *Inbox* (visited daily or so), 2nd choice: ericksrw@lacc.edu.

OFFICE HOURS: (Tentatively) After class for 20 minutes (further time slots to be determined).

PRE-REQUISITES: Math 240 or Math 258 (Trigonometry) or Equivalent

SUBJECT MATTER (SLO): Students learn the fundamentals of Newtonian physics, such as mechanics, heat and sound. This course is designed for majors in Health and Life Sciences, Architecture, and all those needing a one year course in college physics requiring trigonometry but NOT calculus, such as Computer Science.

WEIGHTING: Comprehensive Final Exam 20%, 4 Tests 50%, HW, Quizzes and Classwork 15% , 6 Labs 15%

*Note: 5 tests are given, but the lowest score is dropped. Thus, NO make-up tests are given so plan accordingly.
 Note: Up to 7 Labs / Experiments will be given, with the lowest score being dropped.*

GRADING: A: 100 – 90.0, B: 89.9 – 80.0, C: 79.9 – 70.0, D: 69.9 – 60.0, F: 59.9 – 0

TENTATIVE SCHEDULE: Fall 2025

Wk	Date	Monday (ON CAMPUS)	Wednesday (ONLINE)
1	01 Sep	<i>L a b o r D a y</i>	Intro, Ch 1a: Introduction, Measurement, Estimating
2	08 Sep	Ch 1a: Estimating -- Ch 2a: Kinematics in One Dim	Ch 2b: Kinematics in One Dimension -- Ch 3a: Vectors
3	15 Sep	Ch 3b: Kinematics 2-Dim – Lab 2a: Forces	Ch 4a: Laws of Motion I
4	22 Sep	Test 1 (1-3) – Lab 2a: Forces	Ch 4b: Laws of Motion II – Friction
5	29 Sep	Ch 5a: Circular Motion – Lab 3: Newt's 2 nd Law	Ch 5b: Gravity
6	06 Oct	Ch 6a: Work – Lab 4: Circular Motion	Ch 6b: Energy
7	13 Oct	Test 2 (4-6) – Ch 7a: Linear Momentum I	Ch 7a: Linear Momentum I
8	20 Oct	Ch 7b: Linear Momentum II– Lab 5: Linear Mom'tm	Ch 8a: Rotational Motion I
9	27 Oct	Ch 8b: Rotational Motion II	Ch 9: Statics & Elasticity (<i>schedule Final</i>)
10	03 Nov	Test 3 (7-9) – Lab 6: Simple Machines	Ch 10a: Fluids I – Statics
11	10 Nov	Ch 10b: Fluids II – Dynamics	Ch 11a: Oscillations
12	17 Nov	Ch 11b: Waves – Ch 12a: Sound I	Ch 12a: Sound I
13	24 Nov	Test 4 (10-12) Ch 12b: Sound II	Ch 13a: Temperature
14	01 Nov	Ch 13b: Kinetic Thy – Lab 7: Speed of Sound	Ch 14b: Heat
15	08 Dec	Test 5 (13-14) – Lab 8: Latent Heat	Ch 15b: Thermodynamics
16	15 Dec	<i>No Class (Online Office Hour from 2:20 – 4:40)</i>	Comprehensive Final Exam (Dec 17th 1 – 3 pm ON CAMPUS)

Last Day to: Add, Drop w/ Refund and Drop w/o 'W': 14 Sep, Drop with a "W": 23 Nov v.3

WORKLOAD: This class will require a major time and effort commitment. Plan on spending at least an hour or two each night studying, doing problems, and/or writing up lab reports. This class is 4 units, which means you should be spending a lot more time on it than the typical 3 unit class. **DO NOT FALL BEHIND!** It is very difficult to catch up in this class as each chapter builds on the previous chapters, so stay on top of things. Ask for help if you are confused about anything. **DO NOT ASSUME YOU WILL FIGURE IT OUT LATER AND CATCH UP (CRAMMING)!**

HOMWORK: After the lecture of each section consider the HW to be assigned, even if it was not formally announced (ask if in doubt). Work the problems listed in the HW Syllabus. E-mail *a fellow student* should you miss class as I do not always recall the details from class to class (I teach other classes and I work a part-time day job :) **Assigned HW is due at the start of Monday's class!** Late HW is NOT accepted under any circumstances! Each problem will be given a grade of 0 or 1 based primarily on completeness.

HOMWORK GUIDELINES: In order to receive credit for homework, tests and projects your work must follow a specific set of style rules summarized in the handout "Homework Guidelines." These are like the rules in English classes: ((See mymathmantra.com → [homework](#) for examples))

- * HW must be properly labeled and stapled by the section to be accepted.
- * Every HW assignment starts on a new page and needs class, title and name along the top.
- * *Please DO NOT staple multiple sections together.*
- * No two column layout - use full width of the page.
- * All work is done on 8.5 x 11.0 white paper or engineering pad paper.
- * Readable: Neatly written and organized layout of your work

My grader and I are *not* obligated to grade any type of work, including exam work, failing to follow these guidelines. Messy work reflects on your self-respect as well as your respect towards those who must read it.

NAMING CONVENTIONS: All uploaded material to CANVAS, or emailed to me or my grader, follows a naming convention. Example "*Math270-HW2F-Goodman-Amy.*" Example, on email use Subject: "*Math270-Extra Credit?*" Failing to follow the convention could result in NO CREDIT to the submission, mostly b/c it is lost. (([See Working Remotely for examples](#)))

TESTING PROCEDURES: In the event we need to go 100% online then tests are given like this:

- a) Log into CANVAS and start your zoom session through CANVAS. **Every minute of class zoom time gets recorded during the tests.** So PLEASE assure your environment is conducive to being viewed by me (and at times your classmates). Restroom breaks are *not* normally allowed.
- b) Point your zoom camera (computer/laptop/tablet camera) at your face, *You must remain connected to zoom the entire time of the test. Your face must be clearly seen in your zoom camera the entire time during the test.* During the test you might be approached by me, via private chat on zoom, to turn up the room lights, or to reposition your zoom camera onto yourself.
- c) Download the written portion (there may be a Multiple Choice/fill in the blank portion also) of the test from CANVAS when the Start Time allows it.
- d) Print your test out and start the written portion on your print out, otherwise, if you do not have a printer open the test on your device and copy enough of the question onto white paper sheet to begin. *Chat with me when leaving to get your printout.*
- e) Answer your questions on the white paper from your printer. Use the zoom Private Chat to ask me any questions regarding the readability, or the interpretation of test questions.
- f) Please note the test's Due Date and End Time on CANVAS!!!!
- g) At the Due Date time – stop writing and start scanning. Upload your test to CANVAS by clicking on the [Submit Assignment](#) button. Ignore the "Late" warning that CANVAS posts between the Due Date and the End Time, there is no penalty in between these times.
- h) CANVAS will *not* allow you to upload your test after the End Time
 - at that point you will need to email it to ericksrw@laccd.edu to establish the timestamp *but* you will then ask me to extend the upload time and you will receive a penalty on your test score of 4%, per every 4 minutes late after that.

(Your scanner, email protocols, and zoom time on the recordings mark the time of creation and last modified, sent time, received time in email, and, the file system marks the placement time into the files. So we know when your files are late.)

DISABILITIES AND GRIEVANCES: Students with a verified disability who may need reasonable accommodations for this class are encouraged to notify the instructor and contact the [Office for Special Services](#) (SSV 100, 323-953-4000 x 2270) as soon as possible. *All information will remain confidential.* I will do my best to accommodate any disability that any student may have. If you have any complaints or grievances about the class or your treatment in it, talk to me first, so that we can work out any issues.

CHEATING results in a zero on the element being tested on. If seating allows for it we sit every other seat during the examination period. I reserve the right to rearrange people during the tests. *No restroom breaks!* Three Strikes: 1- "Eyes on your own paper," 2- I tap your desk, 3- I take your exam and put a Zero on it. Further cheating warrants a [visit to the Dean](#), the results of which could be expulsion from CoC!

DISTRACTIONS: Late students create an unnecessary distraction, so it is your responsibility to your classmates to arrive on time. *Once in class* - stow all devices. You may be asked to leave class if you are texting or using your device in class. *At home* - place your device in the freezer while studying, visiting it 10 minutes at the end of each hour. Turn off your TV, youtube, GF or BF. Turn on aggressive classical music - it wires the brain for math. Some people study best in the mornings – know your learning style. Avoid heavy foods before class and study. Drink plenty of water and eat almonds, raisins, yogurt, veggies to combat tiredness. You are what you eat! Walk a bit before class.

INCOMPLETES: Incompletes (I) are given only for serious and verifiable reasons. You must also have a current grade of C or greater when requesting one.

TUTORING: My Office Hours. Khanacademy.org

DROPPING THE CLASS: *I will drop you if you miss four lectures without notifying me.* Dropping *after the posted drop date* will result in a "W" on your transcript. **Effective July 1, 2012** students have only 3 attempts to pass a class. A grade of "D", "F", "I", or "NP" in a class, or a "W", will count as an attempt. ZOOM/CANVAS keeps track.

OFFICIAL TEXT: [, OpenStax College Physics, 2e](https://openstax.org/details/books/college-physics) <https://openstax.org/details/books/college-physics>

HIGHLY RECOMMENDED TEXT: *Physics: Principle and Applications* [ISBN-13: 978-0-321-86911-1](#), 7th ed, Giancoli ©2014 Pearson {The course is designed around this text. Many used copies available for low price.}

WEBSITES: [Instructor's Website](#), [OpenStax College Physics Text](#), [Our Physics Reserve](#).

CALCULATOR: On those tests allowing a calculator NO electronic device, graphing calculators nor other big fat programable calculators are allowed. *Instead you may use a basic scientific such as the [TI-30XA](#) or equivalent.*

REQUIRED HARDWARE: A computer, or laptop or larger sized-tablets (8" diagonals or more) are required to participate in this class. [LACC offers laptops for students that need them.](#) Smartphones and small tablets are not allowed – their screens are too small to have the necessary resolution to view exams and lectures.

REQUIRED APP: If we are forced to go remote and we need to scan I require a scanning app that puts a time stamp on your pdf document (camscanner does not) "[Genius Scan](#)" is the one I use to scan and post the lecture notes. This app converts multiple color images (pages) to a single **lightweight** black and white PDF file. You must be able to scan individual HW sections, Labs or Exams 'page-by-page' and then submit them to CANVAS as a **single** PDF document.

THE NOTEBOOK: I'm telling you a secret I wish I knew about at the start of my college education – *Take your notes in a [composition book!](#)* Other methods have flaws that make them short lived – composition books last. The only notes from my 10 years of college that are still on my shelves are those taken in composition books.

1. Cut out and keep your syllabus taped to the first pages for rapid reference.
2. Keep a HW log of what was assigned and what you have completed (just cut'n paste the HW Syllabus into your notebook).
3. Keep a Table of Contents. Write Sections down and your homemade page numbers you make as you go along.
4. Then you have the Chapter notes: section by section.
5. Cut'n tape 'recipes' in-between your note book pages. ((See [Notebooks examples](#)))