

# PHYSICS 202 - WEDNESDAY LAB SYLLABUS 24338 - FA20

"The value of a college education is not the learning of many facts, but the training of the mind to think something that cannot be learned from textbooks"

<b>INSTRUCTOR:</b>	Carlos R. Mera
<b>OFFICE:</b>	PST-130
<b>PHONE #:</b>	(562) 860-2451 ext.2669
<b>E-MAIL:</b>	<a href="mailto:cmerna@cerritos.edu">cmerna@cerritos.edu</a>
<b>WEB SITE:</b>	<a href="http://www.cerritos.edu/cmerna">www.cerritos.edu/cmerna</a>
<b>OFFICE HOURS:</b>	Tuesday, Wednesday and Thursday: 3:30 PM to 4:30PM , or by appointment. Office hours will be on line through canvas.
<b>TEXTBOOK:</b>	Physics 202 Lab Manual (Canvas)
<b>MATERIALS:</b>	Webcam, Microphone, Computer, Reliable Internet Connection, USB Drive, pencil, ruler, calculator and other materials as needed.

**Overview:** The experiments will be performed according to the attached tentative schedule. Students will be allowed to work with a partner and turn in one report per group. Students are expected to become familiar with the experiments by reading the experiment instructions, handouts and watching the pre lab videos posted in canvas. Adding deadlines for the lab are the same as the lecture. You have to be added to the lecture to be added to the lab. You will not be able to join the lab if you missed the mandatory orientation for the lecture. We will have an assignment during the mandatory introductory meeting. Anyone not completing the assignment during the introductory meeting will receive a zero for the assignment. **Finally, students will be allowed to join the introductory meeting until 11:10 AM. Anyone coming after 11:10 AM will not be able to join the meeting. The last day to add the class is August 28th.**

<b>Zoom Meeting:</b>	<b>Mandatory</b> online meeting Wednesday August 19 at 11:00 AM.
<b>Class Hours:</b>	Wednesday 11:00 AM to 1:50 PM
<b>Section:</b>	24338
<b>Location:</b>	Online

**Prerequisite:** The prerequisites for this class are **Physics 201 and Math 190 (Calculus II)** is a co-requisite. Students will be dropped from this class if they don't meet the prerequisites. I will not sign any paper work to allow students to remain enrolled in the class if they are dropped by the computer system in the middle of the semester for lack of prerequisites, regardless of what their grade in the class is at that point in time.

**Lab Lecture:** On Wednesdays we will have zoom meeting from 11:00 AM to 1:50 PM. A detail lab lecture describing that day's experiment will take place during those meetings. **Attendance is mandatory.** This lecture will include but it is not limited to, an explanation of the experiment, theory and any safety warnings. The live lecture will be recorded and the link to the videos will be posted in the modules section in canvas. You will be giving access to each module on the week the lab is scheduled. No lab module will be opened before its schedule week. **Do not ask.** This is a 18 week class and we will work for 18 weeks.

**Reports:** Each group (2 students per group max) will submit a complete report for each experiment. Only one report per group will be accepted, so make sure that you select your lab partner well. The report must have both partners' names. The grade, including late reports penalties, will be for both students. Both partners must work equally on the lab reports. **Anyone not helping with the work load will receive a zero for the report.** Each report will be worth 100 points. Follow the section on writing a lab report from the website. The reports are due by **11:59 PM** on the due date listed on Canvas and must be submitted through Canvas. Students are responsible for checking due dates in canvas. Reports submitted through email will not be accepted. **No late reports will be accepted, do not ask. I will go by the clock in Canvas not your clock.** Any experiment no perform will result in a zero grade. No reports will be accepted once the assignment has closed in Canvas.

**Attendance:** On Wednesdays we will have zoom meetings from 11:00 AM to 1:50 PM. **Attendance to those meetings is mandatory.** Students missing those meetings will not receive credit for that week's lab assignment.

We will have a pre lab lecture and demos during those meetings.

**Participation:** This is a laboratory course and, therefore, you are expected to participate. Participation in this class is not limited to just attendance, but also requires that students complete a minimum amount of work during the lab period. Your instructor will determine the amount of work to be completed each week and will announce it during class. All work must be finished during the allocated lab time. Students will not be allowed to return at a later time to complete an experiment.

**Make up labs:** No makeup labs will be offered. The lowest lab score will be dropped to compensate for this. **Only one lab score will be dropped.**

**Extra Credit:** There is no extra credit in this class. You must earn your points based on the regular assignments provided to you.

**Grading:** Your grade will be determined by the totals from your lab reports. I will give your lecture instructor a percent not a letter grade. I will post your lab grades on Canvas. Grades will not be rounded. Please check your grades regularly for accuracy.

**Student Code of Conduct:** Behavior which is disruptive is not appropriate and will not be allowed on line. I will follow the Student Code of Conduct published by Cerritos College and listed in the schedule of courses.

**Students With Disabilities:** Cerritos Community College is an equal opportunity, affirmative action employer and educational institution committed to excellence through diversity. Reasonable accommodations including materials in an alternative format will be made for individuals with disabilities. For more information, please contact CC Disabled Student Programs and Services, at 562-860-2451 ext. 2335.

**Academic Honesty:** The school policies and regulations will be applied in all cases. Anyone caught cheating will receive a zero for the assignment for the first offense. A second offense will result in disciplinary action. No amount of pleading or apologizing will change this action, even if it is the first offense. Helping a cheater is also cheating and will receive the same penalty. **A zero received in an assignment because of cheating will not be dropped as the lowest score.**

**Student Learning Outcomes (SLOs):** A student completing a Physics 202 Lab will be able to:

1. Students will analyze real-world experimental data, including appropriate use of error propagation, units and significant figures.
2. Students will relate the results of experimental data to the physical concepts discussed in the lecture portion of the class.
3. Students will understand units and dimensions not presented in Physics 201 or 203.

**Errors in grading:** I will do my best to be accurate and consistent in my grading. I will add comments to the assignments explaining any deduction of points. Please read though those comments before contacting me. However, contact me if after reading my comments, you still believe that I have made an error in grading your assignment. I will setup a personal zoom meeting with you to discuss the error. During that meeting I will listen to your concern and discuss the reasoning for the grading. For grading inconsistency, I will look at your assignment and whatever other assignment you are using as a reference. I will give you points back if I realize that I took too many point off your assignment. By the same token, I will deduct points from the other assignment if I realize that I took too little points from it.

**Discussing Grades and Personal matters:** By law I can only discuss grades with a student in person. I will setup a zoom meeting with only you (you and your lab partner if it is a discussion about a lab report grade). I will not discuss your grades in front of your friends, family members or significant others as your grades are private, no exceptions. I will stop the meeting if I realize that someone besides you is listening to the discussion. I will record the meeting and provide a link to my department chair if you are not satisfy with the outcome of the meeting.

**Office Hours and Consultations:** Three weekly office hours are provided for this class. Those times are provided at the beginning of this document. I will create a site in Canvas and schedule zoom meetings for the office hours. A Canvas invitation to join the site will be send to you through Canvas. You may drop by any time during the office

hours, you do not need to make an appointment. However, be aware that you may have to wait if I am busy with other students. Feel free to listen while I am discussing problems with other students but be respectful of their time. Outside office hours you can reach me through email or using the app Pronto. I will answer your email as soon as possible. You can use Pronto through Canvas or install the app on your phone. I will be able to answer your Pronto questions faster as it does not require me to access my computer to get back to you. I am also willing to schedule a one on one zoom meeting with students outside office hours if my time allows it. I will not discuss your grades or personal problems during office hours. Please make an appointment with me outside office hours to discuss those matters. Finally, come prepared to my office hours, have your questions ready. I expect students to read the material in the lecture notes, book and look through the solutions manual before coming to me. I will ask you questions to try to help you understand the material. I am not your personal solution manual.

**Withdrawal:** Withdrawal from the course is the responsibility of the students. The last day to drop the class is **November 20.**

**Final Comments:** The points in this class must be earned during the semester. There will be no last minute discussion at the end of the semester about extra points. Also, please, make sure you keep track of assignments due dates, since no make up assignments will be provided. Finally, do not plan to leave on vacation before the end of the semester. You will not be allowed to perform any labs before the date established in the lab schedule.