

SYLLABUS

Physics 100 – Survey of Physics

Spring 2020

COURSE TIME: MWF 1:30 – 2:20 pm

CREDIT: 3 semester hours

LOCATION: PSB 217

INSTRUCTOR: Dr. Sara Petty

OFFICE: Watanabe 410

EMAIL: pettys@hawaii.edu

OFFICE HOURS: MWF 3 – 4:00 pm

TEXTBOOK(S): *Inquiry into Physics*, 8th Ed, By Ostdiek and Bord **REQUIRED**

ISBN: 978-1337-605038 (Paper) Publisher: Cengage Learning

See below for accessing WebAssign for this course: **Required**

SUPPLIES: A basic scientific calculator. There is no need for a graphing calculator. It should be able to express numbers in scientific notation (powers of ten).

COURSE DESCRIPTION: Physics 100 is a general survey course of selected topics in physics intended for non-science majors. A minimum amount of geometry and algebra will be used to for discussions of key developments in physics from before the scientific revolution through the latest discoveries in the 21st century, such as the Higgs boson and gravity waves.

PREREQUISITE: Basic knowledge of geometry and algebra (Algebra I). Students should be able to interpret graphs, tables and figures. Knowledge of customary or English units is expected and will be expanded with metric or SI units.

LAB: Students may enroll in PHYS 100L for a one (1) semester laboratory credit. It is highly recommended that students enroll in the lab concurrently with the lecture. The lab is instructed by department staff/graduate students and is graded independently of the lecture. There are no labs the first week of the course.

CLASS POLICIES: The University does not have a mandatory attendance policy nor is roll taken each class period. There will be quizzes and in-class assignments that will serve as proof of attendance. Each student is responsible for all materials presented, including lecture notes and in-class demonstrations. If a class is missed for a valid reason (family emergency, medical, university-related travel), it is the student's responsibility to contact the instructor to obtain any assignments or additional information.

ONLINE COURSE MATERIAL ACCESS

LAULIMA: Laulima has been set-up for this course (<https://laulima.hawaii.edu>). You will receive announcements, documents, and additional resources.

WEBASSIGN: This course uses WebAssign for weekly homework assignments.

To Register for the PHYS 100- SPRING 2020 Course:

1. Go to [GetEnrolled.com](https://www.getenrolled.com)
2. Enter this Course Key: HAWAII76396308
3. Follow the on-screen instructions to complete your *WebAssign* registration
4. Online register one time, using your hawaii.edu email. I will not enter accept the scores for multiple accounts that are not associated with your hawaii.edu email.

Here is a quick-guide about Cengage WebAssign registration:

https://embed.widencdn.net/pdf/plus/cengage/bs8fv1gdjf/gui_webassign-stu-quick-guide-TR.pdf?u=c8lcjz

OTHER MATERIALS

SCIENTIFIC CALCULATOR: Needs to have scientific notation, trigonometric functions, exponents, & logarithms. Graphing or programmable calculators are allowed, but NOT necessary.

- Bring calculator to exams (necessary!) and lectures (needed for occasional in-class questions).
- Smart phones, tablets, computers, or similar devices are NOT permitted during exams!

ELECTRONIC COPIES: handouts, paper homework assignments, solutions, sample exams, and other course materials will be available through WebAssign or the Laulima sites for this course.

GRADING

Homework 35%

Midterms 35%

Final Exam 30%

Homework (35% of course grade) – weekly homework will be set on WebAssign, or Lualima. No late homework is accepted. No credit is given for late assignments. The two lowest grades on homework assignments will be dropped (this can be written or online).

- Written assignments: There will be additional assigned problems that you will need to solve on paper to show your work. These are combined with the WebAssign homework for your total Homework category grade.

Midterms (35% of grade) –There will be four midterms scheduled, covering 3-4 chapters of material. These will be comprehensive and you should plan on using the entire 50 minutes of class time. The lowest midterm will be dropped from your final grade.

Final Exam (30% of grade) –The final exam will cover all topics and materials given through this course. It will be online, and details will be provided shortly before the end of the semester. You do not need to come to the classroom to take the final.

How to succeed in this course

Students who previously received an A in this course, did the following:

1. Came to class, and participated during class. Read the content before coming to class.
2. Attempted and completed all assignments.
3. Showed their work, and took ownership of their learning.
4. Used the campus-wide resources for homework help.
5. Came to office hours.

Announcements will be made each class. This includes due dates, updates to the course schedule, where to find resources, and additional practice materials. If you do not attend class, it is your responsibility to get this information from a classmate. Do not email me asking what you missed.

CLASS POLICIES

Students and faculty each are responsible for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Faculty have the professional responsibility to treat all students with understanding, dignity and respect, to guide classroom discussion and to define a reasonable space within which they, and the students express opinions. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender identity, and nationality.

For the benefit of your fellow students and your instructor, you are expected to practice common courtesy with regard to all course interactions. For example:

- Act as mature and responsible adults at all times.
- The use of cell phones is not allowed during class. Ringer volume must be set to silent before class starts.
- In this large class, talking to your neighbor, even very quietly and briefly, is very disruptive. Offenders will be asked to leave class. Students are actively encouraged to ask talkative neighbors to be quiet.
- Laptops, and other devices can only be used for class related issues and must have their volume set to completely silent. Students should be aware that their laptop screens are clearly visible to those sitting behind them, so they should refrain from displaying personal, distracting or otherwise embarrassing material.
- Show up to class on time, and be prepared to learn when class starts.
- If cheating is suspected during an exam, the instructor has the right to ask you to leave. You will be referred to the Office of Judicial Affairs.
- It is not acceptable to sell, circulate, or distribute the materials from this course. This includes “Chegg” or other online platforms. You will be referred to the Office of Judicial Affairs.

The University does not have a mandatory attendance policy nor is roll taken each class period. There will be ungraded in-class problems that will help students prepare for exams and complete their homework. Each student is responsible for all materials presented, including lecture notes and in-class problems. If a class is missed for a valid reason (family emergency, medical, university-related travel), it is the student’s responsibility to contact the instructor.