

Syllabus

Physics 272 - General Physics II [CRN 80019, 84168, 84169] Fall 2021

Instructor Information

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Course Information

Course Format:

This is an online course with structured activities (reading, homework, chapter quiz, etc.) due each week. The three class meetings (via Zoom) are divided into (1) chapter overview, (2) group discussion/problem solving, and (3) Chapter quiz (no Zoom). Individual office hours are available by appointment.

There is also a weekly synchronous recitation (via Zoom) conducted by teaching assistants. (You will be contacted by the TA)

Visit Laulima course site frequently for announcements and weekly schedule.

In Laulima, go to "Lessons" tool.

"Lessons" contains link to course Zoom meetings, instruction to access Mastering Physics, and "Course Log" - a detailed course schedule.

** Reading, homework, quizzes and exams are administered via Pearson's Mastering Physics (MP).

Course Websites: <https://laulima.hawaii.edu> and www.pearsonmylabandmastering.com

Prerequisites: PHYS 151 or 170

MATH 242 or 252A (or MATH 216 with consent)

Required Materials:

The course textbook is *University Physics with Modern Physics*, by Young & Freedman, 15th edition. The digital access for the course is being delivered through our bookstore's Interactive Digital Access Program (IDAP). Mastering Physics is included in this purchase. The cost of your digital materials will automatically be charged to your student account at a deeply discount price.

To access your course materials, go to "Lessons" in Laulima course site.

How to navigate the course:

We will cover Chapter 21 to 33, ~ 1 chapter/week, so you need to keep a tight regular schedule to avoid falling behind. (We will start a little slower in the first week so that you get used to the format)

Role of textbook – serves as the main reference source for the subject; contains lots of information (perhaps too much to be completely assimilated in one semester). It contains video demos and video solutions for some practice problems.

Role of instructor - serves as a "tour guide" for your learning journey, sets the theme for the course, and provides consultations.

Role of the instructor's notes - serve as a short reference guide, emphasize important concepts and techniques. **Use it in parallel with your reading assignment** (it is not a self-contained lecture but a reference guide to the text and other resources)

Role of homework - provides opportunity for active learning and provides feedback on your learning. (Optional tutorials will also be assigned in MP to guide your study).

Role of weekly quizzes - provides regular assessment of your learning progress (seek help early if needed)

Role of final exam - provides assessment of your accumulated understanding of the course materials.

Role of Forums – provides opportunities for peer-to-peer learning. There are two forums: (1) Student Discussions (Physics Questions) and (2) Student Discussions (Non-physics Questions)

Group Discussion/Problem Solving - Do HW and optional exercises ahead of time. If you have questions, post them in forum. If you are unable to resolve your questions in forum, post your questions to instructor (link to a Google sheet will be provided within Laulima), so that instructor can incorporate them in group discussions

Individual Office Hours –private consultation (by appointment) via Zoom.

Expected time commitment:

You are expected to spend ~ 9 - 10 hours/week for this course.

Here is a suggested mode of operation for a typical week:

- (1) Friday to Sunday: Spend time (2 - 3 hours) to review the instructor's notes, pre-recorded lecture, do some reading assignments and optional self-study exercises on MP.
- (2) Monday: Attend class(50 minutes). Instructure will give an overview of the chapter, ask you questions to test your understanding, you can also ask questions to re-affirm your understanding. Do some homework (~40 minutes)
- (3) Tuesday: Do some HW(~40 minutes)

- (4) Wednesday: Attend class(50 minutes). Be prepared to ask more detailed questions about the chapter materials and participate in group discussions. Finish your homework(~40 minutes)
- (5) Thursday: Review for chapter quiz (~ 1/2 hour)
- (6) Friday: Take chapter quiz during class time (50 minutes)
- (7) ** Attend your mandatory recitation (50 minutes)

Grades

HW (25%), Quizzes (50%), Final Exam (10%), Recitation (15%), Forum Participation (5% extra credit)

Grade on an absolute scale:

96-100 (A+), 91-95 (A), 86-90 (A-)

81-85 (B+), 76-80 (B), 71-75 (B-)

66-70 (C+), 61-65 (C), 56-60 (C-)

51-55 (D+), 46-50 (D), 41-45 (D-)

<40 (F)

Assignment Descriptions and course policies

HW - 1 per chapter (~13 assignments, ~8 questions/assignment). No late homework but will drop the lowest score.

Quizzes – 1 per chapter (~13 quizzes, ~5 questions/quiz, concepts and calculations in multiple choice and fill-in formats). **No made-up quiz but will drop the lowest score.**

Final Exam are similar to quizzes but are cumulative.

Forum (5% max. extra credit) - will be given for participations (posting a topic and/or replying a topic) in the **Forum - Student Discussions (Physics Questions)**. The forum is organized by chapters. **To receive maximum extra credit for forum participation, you must author at least 5 questions per chapter on the average (author = post a question or answer a question).**

Note: your questions/answers must be relevant to the chapter being covered in that week; DO NOT try to game the system by submitting a string of questions all at one time.

Exception to the late submissions/made-up will only be considered for officially sanctioned university activities or reasons, or other serious circumstances with documentations.

Student Conduct

Review the [UH Systemwide Student Conduct Code](#) for more information. Review the [Online Netiquette and Privacy Tips](#) to prepare yourself when interacting online.

The use of online test banks, including but not limited to Chegg, Coursehero, Slader, for ANY PURPOSE AT ALL, is considered cheating. Any student found using such sites will receive a failing grade, and will be referred to the OJA with a recommendation to take further action.

Accommodation Statement

The University of Hawai'i is committed to a barrier-free campus and provides accommodations to ensure students with disabilities equal access to education.

Visit the [KOKUA](#) website. KOKUA can be reached at (808) 956-7511 or (808) 956-7612, email: kokua@hawaii.edu.