



General Physics II
PHYS 2052
January 13th – May 3rd
Monday, 1:30pm – 2:45pm
Wednesday, 1:30pm – 2:45pm
recitation, Fri. 1:00pm – 2:00pm

Final exam:
TBD

Welcome to PHYS 2052 – General Physics II!

INSTRUCTOR INFORMATION

Instructor: Nathan J. Dawson

Email: ndawson@hpu.edu

Office: AC 311A

Office Phone: 236-7909

Office hours: Monday 12:20pm – 1:20pm, Wednesday 2:50pm – 4:50pm

COURSE INFORMATION AND REQUIREMENTS

Course meeting times: MW, 1:30pm – 2:45pm (time slot becomes additional office hours)

Recitation: Friday 1:00pm in AC303

Course meeting location: AC301 (Hawaii Loa Campus)

Required Resources: H. D. Young and R. A. Freedman, *University Physics with Modern Physics*, 14th edition.
Pearson's Mastering Physics online homework code.

Supplemental text: R. A. Serway and J. W. Jewett, *Physics for Scientists and Engineers*, 8th edition.

COURSE DESCRIPTION

Course Objectives: This course is 3 credits and intended as an introduction to the physical properties of electricity, magnetism, electromagnetic waves, and optical phenomena using calculus. The main focus of this course is to familiarize students with the reasoning behind basic physical concepts and their applications. The course shall increase students' ability to apply the basic ideas of algebra and calculus to physical models. The course also helps develop critical thinking skills and scientific reasoning methods through practice by the student.

Prerequisite: PHYS 2050 and MATH 2215 or TCM 3306 to 3320 or TCM 3330 to 4000.

Method of Instruction: Traditional lecture-style course from January 13th – March 11th. Online course format starts March 16th through the end of the spring semester due to the COVID-19 pandemic.

ASSESSMENT, GRADING SCHEME, and COURSE SCHEDULE

Student work: homework will be given online through [Pearson mastering physics](#). Each student will need to purchase an access code. The problems will cover the material presented in the book and/or lecture (lecture notes). Chapters from the course textbook and the supplemental textbook will be provided online in addition to the lecture notes beginning March 16th. In addition to the online homework, each student will benefit from reading the book's material as well as answering questions at the end of each chapter covered. Because the course material progresses quickly, it will help to read the material before it is presented in class. Working together on the homework is encouraged, but be sure you are able to solve these and similar problems on your own! In addition, questions will be discussed in groups during class.

Examinations: there will be one 75-minute-long, in-class examination, one online exam to supplement a traditional in-class examination, and one online final examination. The examination dates are tentatively scheduled and details for the online examinations will be given via blackboard announcements. The examinations will consist of

general physics problems that require understanding of physical concepts and execution of quantitative techniques. All in-class exams will be closed book and closed notes, the in-class exam cover will be used to give the student select formula to be referenced during the in-class exam. It is best to be familiar enough with all of the formulae such that the information on the cover sheet is used only as a reference. All scratch paper is to be turned in with the exam.

Homework	20%
In-class exam	23%
Online exam	23%
Online final exam	34%

A	92 – 100%
A–	90 – 91%
B+	87 – 89%
B	82 – 86%
B–	80 – 81%
C+	77 – 79%
C	72 – 76%
C–	70 – 71%
D	60 – 69%
F	0 – 59%

Course Schedule: (Examinations are tentatively scheduled)

Item	Description
Chapter 21	Electric charge and electric field
Chapter 22	Gauss’s law
Chapter 23	Electric potential
Chapter 24	Capacitance and dielectrics
Chapter 25	Current, dielectrics, and electromotive force
Chapter 26	Direct current circuits
In-class Examination	02/19
Chapter 27	Magnetic field and magnetic forces
Chapter 28	Sources of magnetic field
<i>ONLINE COURSE STRUCTURE BEGINS</i>	
Chapter 29	Electromagnetic induction
Chapter 30	Inductance
Chapter 31	Alternating current
Online Examination	04/06 to be announced on blackboard
Chapter 32	Electromagnetic waves
Chapter 33	The Nature and propagation of light
Chapter 34	Geometric optics
Online Final Examination (cumulative)	TBD, Between Apr 28^h – May 3th

INSTRUCTOR POLICIES AND EXPECTATIONS

Attendance and Participation:

- Each student is expected to attend all lectures until the course changes to an online format.
- Each student is expected to read ahead in the book chapter.
- When the course changes to an online format, each student is expected to read the textbook, the supplemental textbook, and the lecture notes.
- Each student is expected to be ready for to test prior to an exam.

Instructor availability: I will be available in my office during the online portion of the course during regularly scheduled class hours. If this is not an option, students are encouraged to visit any of the three office hours and send emails to me using ndawson@hpu.edu. If you do not receive a timely response, then please send a follow-up email. You may also visit recitation. I am also holding office hours during the laboratory course after March 16th.

Absences and make-up exam policy: all absences, periods of time when a student is unable to complete course work due to a reason such as illness, military duty, or family emergency, must be coordinated with the instructor. Students should make every effort to notify the instructor **PRIOR** to the absence. But if you cannot, please notify the instructor as soon as possible. This record of absences will be important if an **incomplete** grade and course extension are necessary due to extended absences. If a student has an excused absence on the day of an in-class exam, then a different exam will be given of at least the same level of difficulty as the regularly scheduled exam.

Homework policy: All homework problems must be completed prior to the deadline.

Withdrawal: If you need to make any changes to your registration, including withdrawing from or adding courses, return to your HPU advisor for assistance.

For specific deadlines regarding dropping the course with a withdrawal “W” grade and with no GPA penalty, but possible loss of some or all of the tuition. Pay particular attention to the dates associated with withdrawing from the course. It could determine whether you get any tuition back in the event you need to drop the course.

Incomplete: Students who are unable to complete course requirements due to circumstances beyond their control (e.g. Military duty, illness, natural disaster ...) can make a written application to me with documentation for an incomplete “I” grade and complete the course requirements after the end of the course.

Extra Credit: **There is no extra credit in this course.**

Academic Honesty: All Students are expected to adhere to the University's policies regarding academic honesty. The policy of Hawai'i Pacific University is clear regarding academic dishonesty. Any student, who cheats on an academic exercise, lends assistance to others, or who hands in, as a completed assignment, work that is not his or her own will be penalized. The ultimate penalty is suspension from the University. The term "academic exercise" includes all forms of work submitted for points, grades, or credit. Please see the Student Handbook for the full policy at www.hpu.edu/studenthandbook.

UNIVERSITY POLICY AND SUPPORT

HPU's Online Help: HPU Client Services at (808) 566-2411 or email: helpdesk@hpu.edu for technical assistance.

Bookstore: Books are available at the HPU Bookstore at the campus where this course is offered (Downtown or Hawaii Loa) and online (all campuses) at www.hpu.bncollege.com. Rentals and eBooks are available for many of the course materials. You can contact the HPU Bookstore at 808.544.0290 if you have any questions.

Accessibility Services (ADA Accommodations): Under the Rehabilitation Act of 1973 (Section 504), the Americans with Disabilities Act Amendments Act 2008 (ADAAA), and Title III (Public Accommodations) Hawaii Pacific University does not discriminate against individuals with disabilities. Any student who feels he/she may need an accommodation based on the impact of a disability is invited to contact Accessibility Services at HPU (808-544-1197); at access@hpu.edu, or at the LB Bldg., Suite 602, 1060 Bishop Street). This is a necessary step in order to ensure reasonable accommodations in a course. Students are not expected to disclose their specific disability to the professor; Accessibility Services will provide a letter for an instructor explaining the accommodations and NOT

the nature of the disability. If you would like to discuss other concerns, such as medical emergencies or arrangements in the event of an emergency evacuation, please make an appointment to talk with the professor as soon as possible.

Counseling & Behavioral Health Services (CBHS): CBHS provides current HPU students with free and confidential psychological counseling. Sometimes the stress of school along with personal issues can be too much to handle. CBHS provides the opportunity for students to discuss any personal problems or concerns and explore solutions. Appointments can be scheduled by phone at 808-687-7076 or in person at the Downtown campus at UB 905. Office hours are Monday–Friday, 8:00 a.m. to 5:00 p.m.

Military Veteran Center (MVC): MVC has one full time mental health provider from the Veterans Administration who offers confidential psychological counseling to military veterans. Sometimes, the transition from military to civilian life, managing school, and other personal issues can be challenging. MVC has an onsite provider at the downtown campus and appointments can be scheduled by phone at 808-763-7470. Office hours are Monday–Thursday, 8:00 a.m. to 5:00 p.m.

Title IX - Sexual Discrimination and Sexual Misconduct Policy: HPU is committed to providing an educational environment free from sexual discrimination. Students, faculty and staff must report violations of sexual harassment, sexual assaults, stalking, domestic violence, dating violence, and retaliation to trigger corrective and preventative actions as well as victim support services. Victim support services include assistance with filing police reports, referrals to counseling and medical providers, assignment of a victim advocate, and assistance with academic accommodations. Faculty and students who become aware of such violations should contact the Title IX Coordinator (808-687-7014) or file an anonymous report using the Compliance Hotline (877-270-5054 or www.tnvinc.com/hpu). More details can be found at www.hpu.edu/studenthandbook.

Security & Safety: Help keep our campus safe and secure. For emergency situations, call 911; for non-emergencies, contact HPU security (808-544-1400). Timely reports of observations to security and the police can go a long way in preventing future crimes. Also, HPU security provides transportation or a walking escort at the Hawaii Loa campus, and a walking escort on the Downtown campus for anyone walking alone on foot to any university parking lot, facility or city bus stop. Call 808-236-3515 (Hawaii Loa) and 808-544-1400 (Downtown)—a security officer will be sent to your location. At military base locations, call Base Security at 808-474-2222. To receive critical information via text messaging, update your mobile number with Rave Alert (<http://phone.hpu.edu>), HPU's emergency text program. Go to <https://www.hpu.edu/security/index.html> for more about campus security and emergency preparedness.

Tutoring:

Email: tutoring@hpu.edu

Phone: (808) 544-9334