

Syllabus

Course: Phys 100-701 Survey of Physics
Course Schedule: MTWRF 1030-1145am in WAT 112
Instructor: Stephen Hill
Email: HillSJ@hawaii.edu
Office: WAT219
Office Hours: Wednesday 1:30-3:30
Text: Inquiry into Physics 8th Edition by Vern J. Ostdiek Donald J. Bord
ISBN: 1305959426
ISBN-13: 978-1305959422
Co-Require: Physics 100L Survey of Physics Lab

Course Description

PHYS 100 is an introductory survey course in physics designed for non-science majors. Some of the topics covered include mechanics, thermal physics, electricity and magnetism, optics, and selected topics in modern physics.

Student learning outcomes:

- To understand the importance of experiments as the basis of the scientific method.
- Better understand physics concepts covered in lecture by seeing their application in experiments.

What to expect:

- There will be homework everyday due at the start of class
- There will be in class discussion questions where every student is expected to participate
- There will be 3 exams on July 12th , July 26th , and August 9th
- The exams will be in class and then could have some type of out of class material
- Students will sit in groups for discussion

Grading:

Final grades will be curved over all sections. The typical outcome over all sections is approximately 30% A's, 40% B's, 30% C's and below.

- 5% Participation
- 20% Homework
- 25% Exam 1 July 12th
- 25% Exam 2 July 26th
- 25% Exam 3 August 9th

Cheating:

- No cheating and copying is allowed.
- No collaboration at all for exams.
- A student who was caught cheating would be given a zero for that Assignment (may also lead to a direct fail of the course).

Being late:

- This class will begin on time everyday weather you are here or not and it is important to not miss material
- If you are going to miss any classes let me know ASAP

Exams:

- There will be 3 Exams on the dates given above
- They won't be cumulative they will only cover up to what we have reached since the start of class or last exam (However some early concepts keep coming up
- They will be closed book and take the entire period on the day we take them
- There may be out of class portions to do over the weekend depending on the course

Course Topics:

This course will deal with mostly with two topics Classical Mechanics and Electromagnetism and then we will end by discussing modern physics topics

- Fundamentals
 - Scientific Method
 - Dimensions and Experimentation
- Classical Mechanics
 - Motion Term (distance, displacement, speed, velocity, acceleration....)
 - Kinematics
 - Momentum
 - Forces
 - Work and Energy
 - Conservation Laws
 - Collisions
 - Fluid Dynamics
 - Thermodynamics
 - Waves
 - Sound
- Electromagnetism
 - Charge
 - Electric Field
 - Magnetic Field
 - Circuits
 - EM waves
 - Optics
- Modern Physics
 - Special Relativity
 - General Relativity
 - Cosmology
 - Quantum Mechanics
 - Particle Physics

The University of Hawai'i is committed to providing a learning, working and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking.

If you or someone you know is experiencing any of these, the University has staff and resources on your campus to support and assist you. Staff can also direct you to resources that are in the community.

Here are some of your options:

Anonymous and Confidential

If you wish to remain Anonymous, speak with someone Confidentially, or would like to receive information and support in a Confidential setting, contact the confidential resources are available at www.manoa.hawaii.edu/titleix/resources/#confidential

or

If you wish to remain Anonymous, speak with someone Confidentially, or would like to receive information and support in a Confidential setting, contact:

Lesbian, Gay, Bisexual, Transgender (LGBT) Student Services

Lesbian, Gay, Bisexual, Transgender and Intersex (LGBTI) Student Services strives to maintain a safe and inclusive campus environment that is free from harassment and discrimination. The office provides direct services to students of the University of Hawai'i at Mānoa to confidentially discuss or seek advocacy and support for mistreatment due to their actual or perceived sex, gender identity, gender expression, or sexual orientation.

Camaron Miyamoto
Queen Lili'uokalani Center for Student Services, Office 211
2600 Campus Road
Honolulu, HI 96822
(808) 956-9250
email: lgbtq@hawaii.edu
web: <http://manoa.hawaii.edu/lgbt/>

Office of Gender Equity

The Office of Gender Equity offers direct services to victims and survivors of sexual harassment and sexual assaults. Brief descriptions of services offered are available here.

Jenna Friedman
Queen Lili'uokalani Center for Student Services, Office 210
2600 Campus Road
Honolulu, HI 96822
(808) 956-9499
email: geneq@hawaii.edu
web: manoa.hawaii.edu/genderequity

Prevention, Awareness, and Understanding (PAU) Violence Program

Prevention, Awareness, and Understanding (PAU) Violence Program exists to inspire, educate, and empower students and campus communities to build safe living-learning environments, end interpersonal violence, and encourage holistic well-being in ways that are supportive, collaborative, student-centered, and strengths-based. PAU Violence Program staff provides direct services to all University of Hawai'i at Mānoa students including crisis response, safety planning, academic support, and referrals to campus and community resources.

Jennifer Barnett Leslie Cabingabang
Queen Lili'uokalani Center for Student Services, Office 211
2600 Campus Road
Honolulu, HI 96822
(808) 956-8059
email: uhmpau@hawaii.edu

Student Parents At Mānoa (SPAM)

Student Parents At Mānoa (SPAM) seeks to increase the visibility of and resources for student parents at UH Mānoa as they pursue education while parenting. SPAM staff provide advocacy, support, and referrals for pregnant and parenting students to help them succeed in their educational goals.

Teresa Bill
Queen Lili'uokalani Center for Student Services, Office 211
2600 Campus Road
Honolulu, HI 96822
(808) 956-8059
email: gotkids@hawaii.edu
web: manoa.hawaii.edu/studentparents/

Counseling and Student Development Center (CSDC)

The Counseling and Student Development Center (CSDC) offers support to UHM students, staff, and faculty to assist with personal, academic, and career concerns. All services are confidential and most are free of charge for Mānoa students. They also offer free consultation to faculty and staff on personal and student-related issues as well. CSDC office hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday. They also offer immediate walk in appointments for urgent or emergency/crisis services during their regular daily hours.

Queen Lili'uokalani Center for Student Services, Office 312
2600 Campus Road
Honolulu, HI 96822
(808) 956-7927
email: uhmcsdc@hawaii.edu
web: www.manoa.hawaii.edu/counseling/

University Health Services Mānoa (UHSM)

The University Health Services Mānoa (UHSM) is staffed by physicians, nurse clinicians, nurses, and other support staff, and offers a wide range of medical services and programs to UH Mānoa students, with many of the services also available to UH Mānoa faculty and staff and students from other UH campuses. Services include general medical care on a walk-in basis; women's health, sports medicine, psychiatry, and dermatology clinics by appointment; pharmacy and clinical laboratory; and student training, employment and volunteer opportunities.

1710 East West Road
Honolulu, HI 96822
(808) 956- 8965
hawaii.edu/shs/
Reporting

If you wish to Report an incident of sex discrimination or gender-based violence including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence or stalking as well as receive information and support, contact:

Dee Uwono
Director and Title IX Coordinator
Hawai'i Hall, Office 124
2500 Campus Road
Honolulu, HI 96822
(808) 956-2299
t9uhm@hawaii.edu

As a member of the University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator. Although the Title IX Coordinator and I cannot guarantee confidentiality, you will still have options about how your case will be handled.

My goal is to make sure you are aware of the range of options available to you and have access to the resources and support you need.

For more information regarding sex discrimination and gender-based violence, the University's Title IX resources and the University's Policy, Interim EP 1.204, go to www.manoa.hawaii.edu/titleix/