GENERAL PHYSICS I  
(PHYS 170)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Hervé Collin</th>
<th>Course</th>
<th>PHYS170</th>
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<tbody>
<tr>
<td>Office</td>
<td>Kokio 202E</td>
<td>Building</td>
<td>Online</td>
</tr>
<tr>
<td>Phone</td>
<td>734-9265</td>
<td>Office hours</td>
<td>MW: 3:00-4:00</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:herve@hawaii.edu">herve@hawaii.edu</a></td>
<td>Meeting times</td>
<td>M: 4:00-6:00 W: 4:00-6:00</td>
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<tr>
<td>www</td>
<td><a href="http://stemcourses.kcc.hawaii.edu/~herve/phys170/">http://stemcourses.kcc.hawaii.edu/~herve/phys170/</a></td>
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There are 3 websites used this semester:
1. Laulima: for announcement and grades  
   https://laulima.hawaii.edu/portal
2. Collaborate: online sessions on Monday night from 4-6pm.  
   https://sas.elluminate.com/m.jnlp?sid=2009377&password=M.4F633437EB45FAC4C31A30277383C6E  
   Students are required to have a working sound card and a microphone. They must make sure that their computer satisfies the Collaborate website requirement as well:  
   http://support.blackboardcollaborate.com/ics/support/default.asp?deptID=8336&task=knowledge&questionID=1473
3. Course Website: Lectures, suggested problems and resources.  
   http://stemcourses.kcc.hawaii.edu/~herve/phys170/


COURSE DESCRIPTION:  An introductory calculus-bases course dealing with the principles and theories of the mechanics of particles, rigid bodies and fluids; wave motion; thermodynamics and kinetic theory, PHYS 170 is an elective course for the liberal arts curriculum, a required course for the ASNS in Physical Sciences, and Pre-Engineering, and a required course for the BS Engineering curriculum and some Bachelor of Science/Arts curriculum.

PREREQUISITE: Math 206 (or concurrent) or the ability to analyze and solve problems using calculus.  A scientific calculator is required for every test.
**COURSE COMPETENCIES:**
Upon successful completion of the course, the student should be able to:

1. Give examples of applications and solve problems to demonstrate knowledge and skills of motion, mechanics, energy, wave theory, and thermodynamics.

2. Identify and explain the concepts and principles related to the kinematics and dynamics of motion, energy, wave theory and thermodynamics.

3. Identify and define the associations and relationships of the topics treated in the course.

4. Utilize abstract thinking and analytical reasoning in the analysis and solution of word problems.

5. Identify and use mathematical techniques used in the explanation of physical phenomena.

6. Utilize calculation techniques with mathematically formulated principles.

7. Identify and assess quantitative information in terms of physical principles.

**MATERIALS AUXILIARY:** A basic scientific calculator. A suggested complementary book: Schaum's Outline of Physics for Engineering and Science (ISBN: 978-0070084988), which can be purchased through amazon, ebay, etc.. (used and new). In addition, a college physics book (Free) to consolidate the concepts (https://openstaxcollege.org/textbooks/college-physics).

**CONTENT AUXILIARY:** The course content is based on the book chapters, which will be followed in order (except for the first 3). Emphasis will be put on specific chapters. It is important that students come to class in order to know about these emphases and the time and date at which chapters will be covered.

**EXTRA HELP:** Additional help can be obtained through the mentors at the STEM Center (Kokio 202). Times and place will be announced during the semester and are posted on the KAPCC STEM Website: [http://stem.kapiolani.hawaii.edu/peer-mentors/](http://stem.kapiolani.hawaii.edu/peer-mentors/).

**TESTS:** All tests are cumulative with emphasis to the latest covered chapters.

<table>
<thead>
<tr>
<th>Test</th>
<th>Chapters</th>
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<tbody>
<tr>
<td>Test1</td>
<td>3</td>
</tr>
<tr>
<td>Test2</td>
<td>3,2,4 <strong>Cumulative</strong></td>
</tr>
<tr>
<td>Test3</td>
<td>3,2,4,5,6,7,8 <strong>Cumulative</strong></td>
</tr>
<tr>
<td>Test4</td>
<td>3,2,4,5,6,7,8,9,10,11,12,13 <strong>Cumulative</strong></td>
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The final exam is very important for this class as it represents 15% of the grade and is cumulative. It is therefore crucial that students build a list of all suggested problems worked out explicitly throughout the semester that they can review often and use them to prepare for each exam as well as the final exam. Questions on the final exam involve in-depth questions summarizing techniques, theories, and methods learned during the semester.

**TESTS:** No make-up exams are given except for extreme situations and only if notified to the instructor prior to the exam date. *No make-up test will be given if students notify the instructor after the exam date.*

*All tests will be administered at the Kapi‘olani Community College testing center for all students living on Oahu. Students not on Oahu are required to contact the instructor on the first day of class to arrange logistics on testing centers of other islands.*

**HOMEWORK:** No homework will be graded for the course. However, students are expected to work out all homework problems posted on the course website to be prepared for the cumulative tests.

**GRADES:** Your grade for this course will be based on attendance, four cumulative exams, and a cumulative final exam.

<table>
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<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Final Exam</td>
<td>15%</td>
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<tr>
<td>Tests (4)</td>
<td>75% (20%+20%+20%+20%)</td>
</tr>
<tr>
<td>Attendance</td>
<td>5%</td>
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The letter grade that you will earn in this course is based upon the following scale:

- 100 % - 89 %: A
- 88.9 % - 78 %: B
- 77.9 % - 67 %: C
- 66.9 % - 56 %: D
- 55.9 % and below: F

Students are able to obtain their current class standing at any time during the semester through Laulima.

**MATH/SCIENCE DEPARTMENT POLICY ON WITHDRAWALS (W GRADES) AND INCOMPLETE (I GRADE):**

1. **WITHDRAWALS (W GRADES)** – After the “last day of withdrawals” **OCTOBER 30 2015** the instructor will sign withdrawals only in cases of extreme or unusual circumstances. Grade related excuses are unacceptable. Examples of extreme or unusual circumstances are:
   1. a certified medical reason
   2. a death in the immediate family
Students who no longer attend class and who DO NOT OFFICIALLY WITHDRAW from the course will receive “F” grades.

2. INCOMPLETE (I GRADE) – Students must make the request to the instructor to opt for an Incomplete grade. “I” grades will be given only to students who are achieving passing grades and are very close to completing the course. In addition, the student must have a very good reason for not being able to complete all the work on time. Examples of good reasons are the same as those listed under the withdrawal policy above.

KAPI‘OLANI COMMUNITY COLLEGE POLICY:
1. Kapi‘olani Community Collage is an Equal Opportunity/ Affirmative Action Institution.
2. Extended time in a distraction-free environment is an appropriate accommodation based on a student's disability. "If you are a student with a documented disability and have not voluntarily disclosed the nature of your disability so that we may coordinate the accommodations you need, you are invited to contact the Disability Support Services Office in ‘Ilima 107, ph.734-9552, or email kapdss@hawaii.edu for assistance. For students whose primary disability is Deaf or hard of hearing, contact the KCC Deaf Center in Manono 102, ph. 734-9210 (V) or 447-1379 (videophone)"
3. Students are expected to attend all classes for which they are registered. If a student is unable to attend class, he or she should contact the instructor in advance to give notification of the absence and make necessary arrangements.

TWO-WAY COMMUNICATION DEVICES:
These devices are not allowed in the classroom. Please see to it that these devices are turned off while in class.

UH POLICY ON EMAIL COMMUNICATION:
The electronic communications policy adopted in December 2005 establishes the University of Hawai‘i Internet service as an official medium for communication among students, faculty, and staff. Every member of the system has a hawaii.edu address, and the associated username and password provide access to essential Web announcements and email. You are hereby informed of the need to regularly log in to UH email and Web services for announcements and personal mail. Failing to do so will mean missing critical information from academic and program advisors, instructors, registration and business office staff, classmates, student organizations, and others.

ACADEMIC GRIEVANCE STATEMENT:
In instructional activities, the students are responsible for meeting all of the instructor's attendance and assignment requirements. Failure to do so may affect their final grade. In all college-related activities, including instruction, they must abide by the college's conduct codes and regulations, refraining from behavior that interferes with the rights and safety of others in the learning environment. Finally, if they decide to file a grievance, they are fully responsible for providing proof that they have been wronged.

CLASS CANCELLATION:
Lecture is cancelled if, without prior notice, the instructor is more than 15 minutes late for 75 minute classes or 10 minutes for 50 minute classes.

**PROCESS For Dealing With ACADEMIC DISHONESTY** (Student Conduct Code)

In cases of suspected or admitted academic dishonesty, the instructor involved shall attempt to discuss the matter with the student. The instructor may bring the matter to the attention of the departmental chairperson for consultation. The instructor may require the student to redo the assignment, give a failing or reduced grade for the course, and/or refer the student to the Vice Chancellor for Student Affairs or designee through the Department Chair for possible college action under the Student Conduct Code. The Vice Chancellor for Student Affairs or designee shall pursue such cases to determine appropriate disciplinary actions if, after a preliminary investigation, it is his/her determination that probable cause exists to establish that an act of academic dishonesty took place.

**OTHER DSSO/Deaf Center reminders:**

1. **Accessible Technology / Multimedia Accessibility:** Ensuring access to technology is reflected in the College's Technology Plan. The federal mandate to ensure accessibility extends to technology used in the classroom, on-line classes and multimedia presentations. Online content, content-specific computer applications, instructional software, "e-books," course materials, handouts, exams, equipment, etc. must be accessible and provided to students requiring "alternate format" as an accommodation stated on their "Disability Notice." If formats are "inaccessible," they will need to be converted into accessible formats. Please provide course materials to eligible students early in the semester so that equipment and/or conversions can be provided to the student in a timely manner.

   If you have questions regarding a student who receives "Alternate Format" as an accommodation (accessible textbooks, course materials, or enlarged print), please contact Mary Ann Vasaturo, DSSO counselor. Videos should be accessible (e.g. captioning, transcript of text available, etc.) and any pictures should have written, descriptive text. Contact Layce (Reed) Garcia, Counselor for the KCC Deaf Center, if you have questions regarding captioning requirements anareed@hawaii.edu). Mary Hattori (ext. 9840, maryh@hawaii.edu) is serving as the contact point for CELTT assistance. Please contact DSSO/Deaf Center personnel well in advance if assistance is needed with accommodations.

2. **Special Testing for Students with Disabilities** (extended time for testing/area of minimal distractions)

   The official site for students with disabilities who receive testing accommodations is in the Testing Center, located in the Lama Library, Room 101. The check-in point for dropping off and picking up exams or quizzes is the Testing Center desk, located next to
the library circulation desk. Instructors should know that if they choose to test students at a site other than the Testing Center, they may be leaving themselves open to complaints of discrimination by not providing the appropriate accommodation.

3. **Service Animals:**
   A service animal is a dog that is individually trained to do work or perform tasks for the benefit of an individual with a disability, including a physical, sensory, psychiatric, intellectual or other mental disability. Generally, service animals are permitted in all areas where members of the public are allowed to go. As with all students with disabilities, a student with a service animal may choose to self-disclose their disability and seek disability accommodations with DSSO but are **not required** to do so. Only two questions are allowable when inquiring about an individual's service animal: 1) Is the dog a service animal required because of a disability? and 2) What work or task has this dog been trained to perform? Dogs whose sole function is to provide comfort or emotional support do not qualify as service animals under the ADA.

4. **Accessible furniture:**
   Accessible tables and chairs have been placed in some classrooms for a student who qualifies for this accommodation. These are marked with the universal symbol of access (blue background with wheelchair graphics), and **MUST** remain in the classroom, and **not be moved or used for other purposes** for the duration of the semester. Please note that the student may not be enrolled in your class/section, but may be taking a class in that classroom at a different time.

5. **Notetaker Identification badges/PINK cards:**
   DSSO notetakers will wear badges identifying them as a "DSSO Notetaker." You will receive a PINK introduction card from the notetaker, however, the DSSO student's name will not be listed on the card to ensure confidentiality. Please refer to the Disability Notices identifying which student(s) receive notetaking as an accommodation.