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**Spring 2017 Syllabus**  
**Course Code:PHY-252L-02-1**

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**I. Instructor Information**

**Name:** Eric Dodson, M.S.

**Office:** 110 Wesselkamper

**Phone:** 739-8363

**email:** [eric.dodson@chaminade.edu](mailto:eric.dodson@chaminade.edu)

**Office Hours:** MWF: Daily 12:30-1:20 and by appointment

**II. Course Information**

**Meets:** Tuesday 2:30-5:20

**Location:** Henry Hall Lab 10

**III. Required Text**

None, Lab Worksheets will be provided

**IV. Course Title: University Physics I**

**V. Course Description:** One three-hour laboratory period per week to accompany PHY 252. Offered annually.  
*Concurrent registration in PHY 252 required.*

**VI. Learning Outcomes:** At the conclusion of the course the student will be able to:

- Demonstrate the ability to think critically by applying the appropriate laws of physics (correctly) to a given physical situation
- Make careful measurements of physical quantities using various scientific instruments.
- Estimate the uncertainties and demonstrate a knowledge of statistical analysis.
- Present results graphically and make calculations using a computer when appropriate.

**VII. Course Elements**

This is an introduction to laboratory techniques and experiments that illustrate and apply basic physics principles presented in lecture. Students will have the opportunity to apply the scientific method in collecting and analyzing data.

**TENTATIVE SCHEDULE:**

Week	Lab
1	Vector Addition
2	Charge
3	Electric Potential
4	Circuits I
5	Circuits II
6	Ohm's Law
7	DC Circuits
8	RC Circuits
9	Magnets and Magnetic Interactions, Exam 1
10	Simple Electric Motor
11	Standing Waves
12	The Speed of Sound
13	Geometric Optics
14	Interference and Diffraction
15	Final Exam, Make Up Labs

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## VIII. Grading Scale

90% –100%	.....	A
80% –90%	.....	B
70% –80%	.....	C
60% –70%	.....	D
0% –60%	.....	F

## IX. Assignments and Grading

The course grade will be based on the following:

- Worksheet Labs Reports ..... 40%
- Quizzes..... 20%
- Participation.....10%
- Exam. 1 ..... 15%
- Final Exam. ....15%

### Lab Reports:

Lab reports will be in the form of worksheets. Labs should be completed and submitted before leaving lab. Although students will work in groups on experiments, lab assignments are individual preparations. Each student is responsible for their own interpretation of results. The reports will graded based on completeness, accuracy, effort and clarity.

### Quizzes:

A short quiz will be given at the beginning of each lab. The quiz will test your understanding of the most recent lab.

### Attendance:

Each students is expected to attend every lab. Arrive on time. Make-up labs will only be given under extenuating circumstances beyond the student's control. If you know in advance of an absence, inform the instructor as soon as possible. **You can only receive a maximum of 4 on a make-up lab without a documented excuse.**

### Safety:

No food or drinks are allowed in lab. Student must wear closed-toed shoes at all times. Slippers are not allowed. Lab coats must be worn at all times.

## X. Additional Departmental and University Policies

### 1. Electronic Devices

**Use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes at Chaminade, unless specifically permitted by your instructor. Use of cellphones and music devices in laboratories is a safety issue. In addition, use of cellphones and music devices in any class is discourteous and may lead to suspicion of academic misconduct. Students who cannot comply with this rule will be asked to leave class and may be subject to laboratory safety violation fines. You will be asked to leave class and marked absent if you do not comply. This will negatively affect your grade. Please refer any questions to the Dean of Natural Sciences and Mathematics.**

### 2. ADAA Statement

2.1 Pursuant to several federal and state laws, including the Americans with Disabilities Act of 1990, as amended by the ADA Amendments Act of 2008, and Section 504 of the Rehabilitation Act of 1973, all qualified students with disabilities are protected from discrimination on basis of disability and are eligible for reasonable accommodations or modifications in the academic environment to enable them to enjoy equal access to academic programs, services, or activities. If a student would like to determine if they meet the criteria for accommodations, they should contact the Counseling Center at 808-735-4845 for further information.

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### 3. Attendance & Tardiness

3.1 Students are expected to attend regularly all courses for which they are registered. Students should notify their instructors when illness or other extenuating circumstances prevents them from attending class and make arrangements to complete missed assignments. Notification may be done by emailing the instructor's Chaminade email address, calling the instructor's campus extension or by leaving a message with the instructor's division office (Natural Science and Math 1 (808) 440-4204). It is the instructor's prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially **withdrawing** may receive a failing grade.

3.2 Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Any unexcused absence of two consecutive weeks or more may result in being **withdrawn** from the course by the instructor, although the instructor is not required to **withdraw** students in that scenario. Repeated absences put students at risk of failing grades.

3.3. Tardiness: Quizzes will begin promptly at the beginning of class. Show up on time and you will get the full amount of time to complete your quiz

### 4. Policy on Make-Up Tests

Make-ups will only be allowed with a valid excuse.

### 5. Policy on Communication

5.1 The University provides a Chaminade email address for all students. Official Chaminade communications will be sent to the students' Chaminade email address and instructors will use only this email to communicate with students. It is the responsibility of the student to check their email frequently. Report email-related problems to the Helpdesk at 808-735-4855 or [helpdesk@chaminade.edu](mailto:helpdesk@chaminade.edu).

### 6. Laboratory Safety Information

The following guidelines are established to provide instructions in maintaining safety for students, staff, and faculty while using any of the science laboratories at Chaminade University. The Division of Natural Sciences and Mathematics (NSM), along with the University Environmental Safety Office are responsible for enforcing the regulations set forth in the current Student Handbook. Queries should be addressed to: Dean of Natural Sciences and Mathematics (808) 440-4204; Environmental Safety Officer (808) 739-4811

### 7. Title IX Declaration

Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator. Should you want to speak to a confidential source you may contact the following:

- Chaminade Counseling Center| 808 735-4845.
- Any priest serving as a sacramental confessor or any ordained religious leader serving in the sacred confidence role.

**8. Academic Honesty Students are expected to have read and to abide by the “Student Rules of Conduct” which are available in your copy of Chaminade University’s Student Handbook. Cheating in the form of plagiarism, collusion, deception and will not be tolerated and will negatively affect your grade.**

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