

<p>CHAMINADE UNIVERSITY PHY-251L-01-1: UNIVERSITY PHYSICS I LAB (Wednesday) COURSE SYLLABUS – FALL 2016</p>

Instructor: Matthew Cochran
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Office: Henry Hall Office 7
Office Phone: 739-8361
Course Time: Wednesday from 2:30 to 5:20
Course Room: Henry Hall L10
Prerequisites: Concurrent enrollment in PHY-251 is assumed.
Required Text: None. Handouts will be provided.
Other Materials: Scientific calculator, lab coat

COURSE DESCRIPTION:

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.

EVALUATIONS AND GRADING SCALE:

Worksheet Labs Reports	50%
Quizzes	20%
Midterm	15%
Final	15%
90% – 100%	A
80% – 90%	B
70% – 80%	C
60% – 70%	D
0% – 60%	F

Incomplete grades (I) will be given in accordance with college regulations as outlined in the college catalog. Withdrawals (W) from the class are the responsibility of the student and deadlines are set by the college.

LAB REPORTS:

Lab reports will be in the form of worksheets. Labs should be completed in class and submitted at the beginning of the next class.

Although students will work in groups on experiments, lab assignments are individual preparations. Each student is responsible for their own interpretation of results.

QUIZZES:

A short quiz will be given at the beginning of each lab. The quiz will test your understanding of the most recent lab. You may use your lab report while taking the quiz. No make-up quizzes will be given.

ATTENDANCE:

Each student 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.

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.

WEEKLY SCHEDULE:

Week	Date	L#	Topic
1	Aug 24	1	Units and Significant Figures
2	Aug 31	2	Representations of Motion
3	Sep 07	3	Motion of a Ball
4	Sep 14	4	Projectile Motion I
5	Sep 21	5	Projectile Motion II
6	Sep 28	6	Friction
7	Oct 05	7	Inclined Plane
8	Oct 12	8	Cart Dynamics
9	Oct 19	9	Energy and Power
10	Oct 26	10	Impulse and Momentum
11	Nov 02	11	Hook's Law
12	Nov 09	12	Rotational Statics
13	Nov 16	13	Harmonic Motion
14	Nov 23	14	Buoyancy
15	Nov 30	15	Specific Heat

MUSIC DEVICES AND MOBILE PHONES:

Unless specifically permitted by your instructor, use of music devices and mobile phones is prohibited during all Natural Science and Mathematics classes at Chaminade, as it is discourteous and may lead to suspicion of academic misconduct. Students unable to comply will be asked to leave class.

ADA ACCOMODATIONS:

Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from CUH Counseling Center (Dr. June Yasuhara, 735-4845) by the end of the third week of classes. Failure to provide written documentation will prevent your instructor from making necessary accommodations. Please refer any questions to the Dean of Students and review procedures at:

www.chaminade.edu/student_life/sss/counseling_services.php

COURSE OBJECTIVES:

Upon successful completion of the course, students will be able to:

- Measure physical quantities such as distance, time, force, and velocity 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