

Instructor: Amy Furniss

Amy Furniss will be at the PSME Center from 6-8pm on Tuesdays and Thursdays

Email: amy.furniss@gmail.com

Class Website: www.foothill.edu/~cascarano/2a.html

Laboratories are a continuation of material covered in lecture. They are hands on, exploratory exercises, done in small groups. The outline of each exercise can be found here: <http://nulltelemetry.com/physics2a>.

Note: you must pass the laboratory to pass Physics 2a. You must be present to collect your own data, even if you have taken the lab previously.

Required Text & Materials:

- > Physics, 4th Edition, Walker (ISBN: 0321541634 - same as required for lecture)
- > Scientific calculator
- > A bound notebook with graphing paper
- > Each class meeting, please read and print out the lab instructions for that day

Course Objectives:

1. Demonstrate basic classical mechanics principles through laboratory experiments
2. Assess the limitations of physical laws and make mathematical approximations in appropriate situations
3. Discuss how physical laws are established and the role of scientific evidence as support

Course Grade:

Grades are based on written reports which are turned in at the end of each lab period. Your final lab grade will be applied to the laboratory portion of your overall Physics 2A grade. You must pass the laboratory to pass the course. Your lab grade is based on write-ups which are due at the end of each lab session.

Attendance:

You are responsible for everything that takes place in class including printing the lab instructions before class, preparing for in class assignments, following any assignment changes, and schedule changes. Regular attendance is required to pass the lab. More than one absence from a lab course will result in a "F" for the lab portion.

Laboratory Make-up Policy:

There are NO make-ups for labs exercises. Your lowest lab score will be dropped from the grade.

In-class work:

You will be doing a lot of in class worksheets and problems. This work will be done in small groups. Help each other, question each other, teach each other and you will all be better because of it. I do not grade on a curve, so helping your classmate will not hurt you. Working problems is one of the best ways to learn the material in a physics course.

Disability Resources:

To obtain disability-related accommodations, students must contact Disability Resource Center (DRC) as early as possible in the quarter. To contact DRC, you may:

- Visit DRC in Room 5400
- Email DRC at adaptivelearningdrc@foothill.edu
- Call DRC at [650-949-7017](tel:650-949-7017) to make an appointment

Laboratory Timeline:

Class Date	Lab	Points
23 September 2014	Measurements	10
30 September 2014	Vectors	10
7 October 2014	Acceleration	10
14 October 2014	Projectile Motion	10
21 October 2014	Atwood's Machine	10
28 October 2014	Centripetal Force	10
4 November 2014	Work and Energy	10
11 November 2014	Ballistic Pendulum	10
18 November 2014	Moment of Inertia	10
2 December 2014	Static Equilibrium	10