

Survey of Physics Laboratory

Physics 113L

Spring 2013

Instructor: William Andersen Science 211
Phone: 562-2355 email: use BlackBoard

Required:

- equipment list below and various household items
- Check Bb email and announcements daily.

BlackBoard:

- Lab reports must be submitted via the assignment in the “Lab Assignments” folder on the Bb course homepage. Just click the lab title and upload any file and/or write answers to interpretation questions in the space provided.
- Students are responsible for ensuring that the files they submit contain the required information. I suggest that you download and open the file which you have submitted. If you find that you have uploaded the wrong file you may submit again. I will base your grade on your last submission.
- Students are responsible for ensuring that they are enrolled and that their BlackBoard name is the same as their Banner name.
- Check BlackBoard to verify the accuracy of posted grades. Challenge in writing any entry you believe incorrect within one week after the grade is posted.

Course grade:

- Lab reports will be evaluated on an eight point scale. Grades will be posted on BlackBoard. You are responsible for monitoring your grades on BlackBoard to ensure that you are receiving proper credit. Do not wait until the end of the semester to tell me you are missing grades.
- Letter grades will be assigned according to the map: 90–100 → *A*, 80–89 → *B*, 70–79 → *C*, 60–69 → *D*, 0–59 → *F*

Tenative Schedule

due date	Lab number	lab title
Jan. 13		
Jan. 25	1	Graphing Data
Jan. 29	2	Natural Motion
Feb. 5	3	Pendulum
Feb. 12	4	Orbit of Mars from Brahe's Data
Feb. 19	5	Force
Feb. 26	6	Lever
March 5	7	Power Output of Sun
March 12	8	Rolling
March 19	SPRING BREAK	
March 26	9	Light Absorption by Dyed Water
April 2	10	Magnetic Field
April 9	11	Helmholtz Resonator
April 16	12	Paper Towel Tube Trumpet
April 23	13	Teacup Oscillations
April 30	14	Electric Motor
May 7	no lab	no lab

Equipment List

description	supplier	item number	approx cost	alternatives
MyChron Students Timer	NASCO	TB17891	\$ 8	smartphone app
Double convex lens (f=5cm)	NASCO	SB10476M	\$ 2	magnifying glass
ALNICO bar magnet (one pair)	NASCO	SB26083M	\$ 6	
World's simplest motor	NASCO	SB26058M	\$ 5	You can make your own. Google for instructions.
digital thermometer	NASCO	SB33552M	\$ 22	\$ 10 at WalMart
Grow lenses-spheres (one packet of 600)	ARBOR	P6-2910	\$ 5	
Korg Chromatic CA-1 tuner	Tarpley Music		\$ 20	free Java downloads