

TA: Zack Draper
<http://www.astro.uvic.ca/~zhd>
A101/102

Classroom : Bob Wright Centre A111
Section B03 : Monday 3:30-6:20 PM
Section B13 : Monday 3:30-6:20 PM

Course Website (OLD):

<http://astrowww.phys.uvic.ca/~robb/a101/index.html>

Lab Manual (OLD):

<http://astrowww.phys.uvic.ca/~robb/labs/a101/a101.pdf>

Policies:

- There are a total of 5 labs taught. One is a night lab. Generally they are on alternating weeks, except when there are statutory holidays. Check the course website for the specific schedule.
- You must have a passing grade in this lab section to pass the class. If you miss a lab section, visit the course website to see a listing of all lab sections being taught for the semester and attend another section. Each lab is taught during a contiguous the week, so you should makeup the lab you miss during the same week.
- Make-up labs are always turned into your TA (me) and not the TA you sat-in with.
- Turn in your lab to the 4th floor of Elliott Building. Wooden boxes are located in the middle of the hallway of Astronomy graduate student offices. North side.
- If you turn in a lab late, you are docked 1 point. If its a week or more late an additional point is docked. Labs 2 weeks late will not be accepted. Extenuating circumstances need aproval. (i.e. Doctor's note, early notice)
- If you cannot makeup a lab during that week, you need to get a makeup lab from Rob Rempel.

Grading:

For each lab, you will turn in a lab report which will have the following sections. They

must be in your own words and not a direct copy of the lab manual. The grading is mostly subjective depending on the specific lab (out of 10 points). If you have a complete lab report expect a grade of 9-10. If 1-2 sections are incomplete 7-8, and if there are egregious errors or more than 2 sections incomplete then expect a grade <6.

Objective or Purpose:

What is the point of the lab in 1-2 sentences. *Always included in the lab write-up.*

Introduction:

What information would you need to know before carrying out the lab? What have you learned in class which is relevant to this lab? What expectations do you have on the results prior to the lab? What systematic (procedural) assumptions are you making? *Always included in the lab write-up. 2-3 full paragraphs.*

Equipment:

List out everything you used in the lab. *Always included in a lab write-up. Bullet point is best.*

Procedure:

List out each step you did during the lab from the start to when you achieve a result. How was each piece of equipment used? Were there things you needed to know to make a specific measurement? *Always included in the lab write-up. Bullet point. ~10 steps, but completeness matters more than number.*

Observations:

If there were sketches, drawings or diagrams made during the procedure, include them here. *Not always included in a lab write-up, depends on the lab.*

Tables/Measurements:

Record all numerical information taken during your procedure. If you need data for your graphs or calculations, include them here. *Always included in the lab write-up.*

Graphs:

Any plot made during the procedure should be included here. Label axis with units and increments which are clearly legible. *Not always included in the lab write-up, depends on the lab.*

Calculations:

Show only an example calculation to take the data you measured to the results you discuss. *If you used a calculator, you should probably include this section.*

Results:

What was the final product of the lab that you arrived at? Summarize observations and report key values you determined from your calculations. *Always included in the lab write-up.*

Questions:

If there is a separate section in your lab manual with specific questions, include them here.

Conclusions/Discussion:

Do your results make sense? Compare any measured or derived values to an expected value. Was the result within the measured uncertainty? What systematic (procedural) errors occurred in the lab that would explain any discrepancy? Do your results match your expectations you discussed in the introduction? *Always included in the lab write-up.*

References:

If you use any work besides the lab manual, put citations here. Wikipedia is a good starting point, but don't use it as a reference! Follow its citations for the original work.