

## **Phys 1810 General Astronomy Lab Syllabus**

The labs provide an opportunity to complement and supplement the lecture course material in a different and practical, hands-on way. They do not rely directly on the lectures and are independent of them. The lab section will be divided into two groups which will meet on alternate weeks. Students will have PHYS 1810 lab roughly every two weeks. Students will be notified of their groups via email. A lab schedule is included here.

### **Location:**

Labs: 385 University College

Observing Trips: Ewen Campus Observatory (ECO)

Glenlea Astronomical Observatory (GAO), transportation provided

### **Contact Information**

**Instructor:** Ms. Danielle Pahud

Office: 221 Allen Physics Building

Phone: 204-474-6202

Email: [Danielle.Pahud@umanitoba.ca](mailto:Danielle.Pahud@umanitoba.ca) (preferred method of communication)

Office Hours: Mondays 11:00am-12:00pm, Fridays 1:00pm-2:00pm or by appointment

### **Teaching Assistants**

Chelsea Braun                      umbrau59@myumanitoba.ca

Erica Franzmann                  umfranze@cc.umanitoba.ca

Benson Guest                      umguest@myumanitoba.ca

Jordan Lasiuk                      lasuikj@myumanitoba.ca

### **Materials Required:**

Lab Manual (available from the book store)

30 cm Ruler (mm divisions)

Sharp pencil & eraser

Protractor

Calculator (optional)

Holographic Diffraction Grating (available from the book store)

Telescope Kit (available from the bookstore)

### **Requirements/Grading:**

The labs and observing provide 25% of the final Phys 1810 course grade. The lab grade is composed of:

- 4 laboratory laboratory exercises in lab (4% each)

- 1 Observing Exercise 1 due at the end of November (4%), preferably completed at GAO or ECO

And a choice of:

- 3 of remaining 5 Observing exercises (5%) to be turned in with the Observing Project

Laboratory assignments are to be completed in the lab manuals and handed in at the end of the class period.

### **Absences:**

Should a student not be able to make their regularly scheduled lab session, they have the option to attend a different section. To switch lab sections, please contact Danielle Pahud and your TA as soon as possible. Once the lab has been marked and handed back, there is no makeup possible

### **Observing Trips:**

Trips to the Glenlea Astronomical Observatory (GAO) will be held on a first come, first served basis and are weather dependent. A total of four trips will be offered - one per day of the week Monday - Thursday on a weather dependent basis. The earliest possible trip will be Tuesday September 12th. Please check your email frequently as this will be the means by which announcements are made, such as when observing sessions will occur.