

ASTRONOMY 23 – SYLLABUS

John Perry, Innovation 203, john.perry@uvm.edu
Your lab TA will provide his/her contact information

LAB SESSIONS: Topics will be reviewed at the beginning of each session, so BE ON TIME!

PREREQUISITE: Astronomy 05, taken previously or concurrently.

FORMAT: This laboratory course supplements the lecture material of Astronomy 05, with 7 projects. 6 of which will be done in the lab. 1 will involve your own outdoor observations. In-lab work will be done in groups, one group for each lab table. Each student will hand in his/her own individual lab report at the end of each session on the Report Form provided. Each student will do the outdoor observing lab individually, due late in the semester. Don't wait too long to start this project. It takes a lot of time.

REPORT FORMAT: The Report Forms supplied for each project must be used.

GRADING: Each in-lab project counts 10%, and the outdoor observation project 40%.

ABSENCES: You are expected to attend each in-lab session. If you must miss one, contact the professor (above), and we will try to switch you into another section for that week. If this cannot be done, you will receive a 0 on that lab.

SUPPLIES: You will need a pencil. Bring a calculator if you can. Photos and diagrams that you may need will be in the lab or posted on Bb.

PROJECTS:

We'll have hard copies of the project write-ups and report forms for you each week in the lab, along with any photos or diagrams you'll need.

The In-lab projects include:

- *Lenses and Telescopes*
- *Stellar Coordinates and Star Charts*
- *Mountains and Craters on the Moon*
- *Retrograde Motion of the Planets*
- *Atomic Spectra and the Hubble Law*
- *Star S2 and Our Galactic Black Hole*

Throughout the semester- *Observing Lab: Determining the Sidereal and Synodic Months, Sidereal and Solar Days, and Your True Zodiacal Sign.* You do this lab on your own outside, and it will be due near the end of the semester.