

ASTRONOMY 23 – SYLLABUS

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

CREDITS: One

FORMAT: This course for Fall '21 is planned to be **In-person**, but Covid restrictions could require it to be still in the Online format. In that case, each student would work alone via UVM Blackboard (Bb) and purchase an \$18 lab kit of tools from the bookstore. All other materials would be provided on Bb and help sessions held each week on MS Teams.

PREREQUISITE: **Astronomy 005**, taken previously or concurrently. (You do not need to take the lab course in order to take the 005 lecture course.)

LAB SESSIONS: Innovation 330. There are 9 projects, 6 of which will be done in the lab. The others will involve your own outdoor observations. In-lab work will be done in teams of 4. Each student will do the outdoor observing lab individually. Each student will hand in his/her own individual lab report at the end of each session on the Report Form provided. There are no lab sessions until the week of Sept. 20, so the lecture course can get ahead of the lab projects.

GRADING: Each project counts 10%, except one of the outdoor projects is 20%.

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 project.

SUPPLIES: Bring a pencil, and a simple calculator if you have one. The lab procedure, report forms and any photos or diagrams that you may need will be provided in the lab.

PROJECTS:

- *Lenses and Telescopes*
- *Stellar Coordinates and Star Charts*
- *Mountains and Craters on the Moon*
- *Retrograde Motion of the Planets*
- *The Lengths of the Solar and Sidereal Days*
- *The Synodic and Sidereal Months*
- *The Hertzsprung Diagram*
- *Atomic Spectra and the Hubble Law*
- *Star S2 and Our Galactic Black Hole*