

ASTRONOMY 23 SYLLABUS

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Your lab TAs will provide their contact information

CREDITS: One

FORMAT: This course for Spring -22 is planned to be **in-person**.

PREREQUISITE: **Astronomy 005**, taken previously or concurrently. (You do not need to take the lab course in order to take the 005 lecture course. You do eventually need to take the lab if you want to satisfy a physical lab science course with 005.)

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 or with one partner. 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 Sept. 23, so the lecture course can stay ahead of the lab projects. Do not come to the lab until then.

GRADING: Each project counts 10%, except the outdoor project Lab#6 is 20%.

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

SUPPLIES:

PROJECTS:

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