

ASTRONOMY

Spring 2022 – Session 4

Instructor: Lyra Porcasi

Syllabus

Class objectives: This course includes the exploration of space, all of the celestial features, what they are, and how they form. Along with the basic parts of space that we already know about, we will delve into more abstract ideas and new hypotheses being tested. In each session, students will utilize pictures, videos, hands-on projects, artwork, and note-taking skills to learn these concepts.

- The Big Bang, and ways the universe might eventually end
- History of Astronomy and telescopes
- Planets, moons, stars
- Eclipses, parallax, and the Doppler Effect
- Asteroids, comets, meteoroids, meteors, meteorites
- The Milky Way and other galaxies
- Nebulae, novae, and supernovae
- Neutron stars, black holes, white holes
- SETI, aliens, space travel, and research
- Dark matter and dark energy
- Wormholes, M Theory, and String Theory

Required materials for class every day: Black and white composition notebook and pens or pencils. Any further supplies needed will be provided by the teacher.