

ASTRONOMY (ASTR)

ASTR 1115G Introduction to Astronomy (Lec+Laboratory) 4 Credits (4)

This course surveys observations, theories, and methods of modern astronomy. The course is predominantly for non-science majors, aiming to provide a conceptual understanding of the universe and the basic physics that governs it. Due to the broad coverage of this course, the specific topics and concepts treated may vary. Commonly presented subjects include the general movements of the sky and history of astronomy, followed by an introduction to basic physics concepts like Newton's and Kepler's laws of motion. The course may also provide modern details and facts about celestial bodies in our solar system, as well as differentiation between them - Terrestrial and Jovian planets, exoplanets, the practical meaning of dwarf planets, asteroids, comets, and Kuiper Belt and Trans-Neptunian Objects. Beyond this we may study stars and galaxies, star clusters, nebulae, black holes, and clusters of galaxies. Finally, we may study cosmology—the structure and history of the universe. The lab component of this course includes hands-on exercises that reinforce concepts covered in the lecture, and may include additional components that introduce students to the night sky. Repeatable: up to 4 credits.

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ASTR 1116 Introduction to Astronomy Lab, Special 1 Credit (1)

This lab only listing exists only for students who may have transferred having taken a lecture only introductory astronomy class, to all them to complete the lab requirement to fulfill the general education requirement.

Prerequisite(s): Must have passed Introduction to Astronomy lecture only

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ASTR 1120G The Planets 4 Credits (4)

Comparative study of the planets, moons, comets, and asteroids which comprise the solar system. Emphasis on geological and physical processes which shape the surfaces and atmospheres of the planets. Laboratory exercises include analysis of images returned by spacecraft. Intended for non-science majors, but some basic math required.

Repeatable: up to 4 credits.

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