

# ASTRONOMY (ASTR)

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**ASTR 1010. Solar System Astronomy (3)**

Astronomy from early ideas of the cosmos to modern observational techniques. The solar system planets, satellites, and minor bodies. The origin and evolution of the solar system.

**Prerequisites:** MATH 0099 or MATH 1101 or MATH 1112 (may be taken concurrently) or MATH 1112A (may be taken concurrently) or MATH 1113 (may be taken concurrently) or MATH 1111 or MATH 1501 (may be taken concurrently) or COMM with a score of 40 or A02 with a score of 18 or S02 with a score of 430 or ACCM with a score of 070

**ASTR 1020. Stellar and Galactic Astronomy (3)**

The study of the Sun and stars, their physical properties and evolution, interstellar matter, star clusters, our galaxy and other galaxies, and the origin and evolution of the Universe.

**Prerequisites:** ASTR 1010

**ASTR 1020L. Astronomy Laboratory (1)**

A series of laboratories designed to measure the physical properties of planets, stars, and galaxies.

**Prerequisites:** ASTR 1020 (may be taken concurrently)

**ASTR 3010. Topics in Astrophysics (3)**

A survey of the methods and results of modern astrophysics for students with a calculus background. Topics are selected from orbital mechanics, gas processes, radiative transfer, spectral analysis, stellar structure and evolution, stellar instabilities, binary star systems, the interstellar medium, stellar remnants, galactic structure and evolution, and cosmology

**Prerequisites:** PHYS 2211 and MATH 2502