

# ASTRONOMY (ASTR)

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## **ASTR 101 Astronomy I: Solar System Units: 3.00**

A non-mathematical introduction to the science of astronomy for non-specialist students. Topics to be covered include the fundamentals of astronomy; and introduction to the tools and techniques of modern observational astronomy; the historical development of our understanding of the Earth, Moon, and Solar System; space exploration of Mars, Jupiter, and other planets; the nature of the Sun; and the origin and uniqueness of our Solar System.

NOTE Also offered online. Consult Arts and Science Online.

Learning Hours may vary.

LEARNING HOURS 120 (36L;24O;60P)

EQUIVALENCY PHYS P15/3.0.

**Requirements:** Prerequisite None.

**Offering Faculty:** Faculty of Arts and Science

## **ASTR 102 Astronomy II: Stars, Galaxies, and the Universe Units: 3.00**

This course, intended for non-specialist students, will provide an overview of astronomy beyond the Solar System. Topics will include: the formation, nature, and evolution of the stars; stellar deaths, including novae, supernovae, white dwarfs, neutron stars, pulsars, and black holes; the interstellar medium; the Milky Way Galaxy; normal and active galaxies and large scale structure in the universe; and modern ideas in cosmology and the early universe.

NOTE Also offered online. Consult Arts and Science Online.

Learning Hours may vary.

LEARNING HOURS 120 (36L;24O;60P)

EQUIVALENCY PHYS P16/3.0.

**Requirements:** Prerequisite (ASTR 101 or PHYS 104 or PHYS 106 or PHYS 117 or PHYS 118) or (APSC 111 and APSC 112) or PHYS P15 or permission of the Department.

**Offering Faculty:** Faculty of Arts and Science