

# Astronomy (ASTR)

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## Courses

### **ASTR A103 Solar System Astronomy 3 Credits**

Introduction to solar system astronomy; emphasis on most recent results from solar system exploration missions. Topics include changes of the sky (seasons, motion of the sky, phases of the moon, planetary motion) and physical properties of the sun, planets, moons, comets, and solar system evolution.

**Registration Restrictions:** High school algebra or equivalent.

**Corequisites:** ASTR A103L.

**Attributes:** UAA Natural Sciences GER.

### **ASTR A103L Solar System Astronomy Laboratory 1 Credit**

Introductory astronomy laboratory with experiments in basic observational methods and data analysis applicable to the study of the solar system.

**Registration Restrictions:** High school algebra or equivalent

**Corequisites:** ASTR A103.

**Attributes:** UAA Natural Sci Lab Only GER.

### **ASTR A104 Stars, Galaxies and Cosmology 3 Credits**

Introduction to solar, stellar, galactic, extragalactic astronomy. An emphasis is placed on the properties of stars, stellar evolution, formation and evolution of galaxies, exoplanets, and the formation and fate of the universe.

**Registration Restrictions:** High school algebra or equivalent

**Corequisites:** ASTR A104L.

**Attributes:** UAA Natural Sciences GER.

### **ASTR A104L Stars, Galaxies and Cosmology Laboratory 1 Credit**

Introductory astronomy laboratory with experiments in basic observational methods and data analysis applicable to the study of solar, stellar, galactic, and extragalactic astronomy.

**Registration Restrictions:** High school algebra or equivalent

**Corequisites:** ASTR A104.

**Attributes:** UAA Natural Sci Lab Only GER.

### **ASTR A365 Astrobiology 3 Credits**

A comprehensive examination of the possibility of the existence of life (microbial and advanced) outside of the Earth, the probability of discovery of extraterrestrial life (methods of planet detection, chemical signatures of microbial life, and contact with advanced life), and the scientific and cultural implications of such a discovery. Includes the study of star and planet formation rates, habitability zones, origin of life, evolution, and formation of intelligence.

**Registration Restrictions:** Junior standing and completion of all GER Tier 1 (basic college-level skills) courses.

**Crosslisted With:** BIOL A365

**Prerequisites:** BIOL A108 with a minimum grade of D and (PHYS A123 with a minimum grade of D or PHYS A211 with a minimum grade of D).

**Attributes:** UAA Integrative Capstone GER.