

# ASTRONOMY (ASTR)

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**ASTR 101. Our Solar System. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3,Lab:3**

An introduction to astronomy concentrating on our evolving understanding of the solar system. Designed for non-science majors. No prerequisite.

**ASTR 102. Stars, Galaxies, and Beyond. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3,Lab:3**

An introduction to astronomy concentrating on the structure of our universe beyond the solar system. Designed for non-science majors. ASTR 101 is not a prerequisite for ASTR 102.

**ASTR 201. Observational Astrophysics. 1 Credit.****Offered Alternating Spring Semester; Lecture hours:2,Other:2**

This course covers spherical astronomy and observational techniques, and applications of physics to solar system objects, stars, stellar evolution, galaxies, and cosmology. Some night observing required. Laboratories focus on observational techniques and data reduction. Prerequisite: PHYS 212 or PHYS 212E.

**ASTR 301. Astrophysics. 1 Credit.****Offered Alternating Spring Semester; Lecture hours:3**

An introduction to general astrophysics covering mechanics of orbiting bodies, radiation laws, stellar spectra, stellar atmospheres, the internal constitution of stars, stellar energy, galaxies, and cosmology. Prerequisites: PHYS 222 and MATH 212 and permission of the instructor. Crosslisted as PHYS 301.

**ASTR 337. Independent Study in Astronomy/Astrophysics. .5-1 Credits.****Offered Both Fall and Spring; Lecture hours:Varies,Other:Varies; Repeatable**

Seminar or independent study in areas of current interest in the astronomy/astrophysics community. Prerequisite: permission of the instructor.

**ASTR 338. Contemporary Study in Astronomy/Astrophysics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Seminar in topics of current interest in the astronomy and astrophysics community. Co- and prerequisites are dependent on topic and instructor. Prerequisite: permission of the instructor.

**ASTR 350. Undergraduate Research. .5-1 Credits.****Offered Both Fall and Spring; Lecture hours:Varies,Other:Varies; Repeatable**

Undergraduate research in astronomy/astrophysics. Prerequisite: permission of the instructor.