

# ASTRONOMY (ASTR)

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## ASTR 1000 - Highlights of Astronomy (2 Credits)

This course provides a survey of the major topics in astronomy. Topics include telescopes the planets, eclipses, comets, constellations, stellar types and groups, galaxies and unusual celestial objects. Each class is divided into an illustrated lecture and observation at the CCRI Observatory on the Knight Campus (Warwick), clear skies permitting or a cloudy night astronomical exercise. Note: This elective does not fill the science requirement.

Lecture: 3 hours

## ASTR 1010 - The Solar System (4 Credits)

This course covers the fundamentals of planetary astronomy. Topics emphasized in this course are the historical development of astronomical understanding, concepts of the celestial sphere, the technology of astronomical observations, modern planetary science derived from the space program, comparative planetology, and the origin and evolution of the solar system. Evening observing sessions are included as an optional part of the course (clear skies permitting). Note: Completion of this course satisfies one laboratory science requirement in the liberal arts and general studies programs.

Lecture: 3 hours, Lab: 2 hours

### Course completes the following requirements:

Gen.Ed. Ability 2A

Gen.Ed. Ability 3A

Lab Science Requirement

Mathematics and Science

URI/RIC Transfer General Education Transfer Opportunity: Yes

## ASTR 1020 - The Stellar System (4 Credits)

This course is a standard survey course on Astronomy dealing with the nature of stars and galaxies. It includes primers on basic physics and mathematics, and uses tools of physics to study the Sun, stars, the life cycles of stars; systems containing more than one star including star clusters and galaxies, extraordinary objects such as neutron stars, pulsars, black holes and quasars; and the origin and evolution of the universe. Evening observing sessions are included as an optional part of the course (clear skies permitting). Note: Completion of this course satisfies one laboratory science requirement in the liberal arts and general studies programs.

Lecture: 3 hours, Lab: 2 hours

### Course completes the following requirements:

Gen.Ed. Ability 2A

Gen.Ed. Ability 3A

Lab Science Requirement

Mathematics and Science

URI/RIC Transfer General Education Transfer Opportunity: Yes