Astronomy (ASTR)

Courses

ASTR 2001L. Survey of the Universe Laboratory (ACTS Equivalency = PHSC 1204 Lab). 1 Hour.
Daytime and nighttime observing with telescopes and indoor exercises on selected topics. Pre- or Corequisite: ASTR 2003. (Typically offered: Fall, Spring and Summer)

ASTR 2001M. Honors Survey of the Universe Laboratory. 1 Hour.
An introduction to the content and fundamental properties of the cosmos. Topics include planets and other objects of the solar system, the sun, normal stars and interstellar medium, birth and death of stars, neutron stars, and black holes. Pre- or Corequisite: ASTR 2003 or ASTR 2003H. (Typically offered: Fall)
This course is equivalent to ASTR 2001L.

An introduction to the content and fundamental properties of the cosmos. Topics include planets and other objects of the solar system, the Sun, normal stars and interstellar medium, birth and death of stars, neutron stars, pulsars, black holes, the Galaxy, clusters of galaxies, and cosmology. Corequisite: ASTR 2001L or ASTR 2001M. (Typically offered: Fall, Spring and Summer)

ASTR 2003H. Honors Survey of the Universe. 3 Hours.
An introduction to the content and fundamental properties of the cosmos. Topics include planets and other objects of the solar system, the Sun, normal stars and interstellar medium, birth and death of stars, neutron stars, pulsars, black holes, the Galaxy, clusters of galaxies, and cosmology. Corequisite: ASTR 2001M. (Typically offered: Fall)
This course is equivalent to ASTR 2003.

ASTR 301V. Observational Astronomy. 1-3 Hour.
Individual experimental or observational problems studied with small telescopes, cameras, and other basic equipment. No credit is given toward a B.S. degree in physics. Prerequisite: ASTR 2003. (Typically offered: Irregular)

ASTR 4033. Astrophysics I: Stars and Planetary Systems. 3 Hours.
An introduction to astrophysics covering stellar structure and evolution, the properties of the solar system, and extrasolar planetary systems. Prerequisite: PHYS 3613 or CHEM 3504. (Typically offered: Fall Odd Years)

ASTR 4043. Astrophysics II: Galaxies and the Large-Scale Universe. 3 Hours.
An introduction to astrophysics covering the interstellar medium, the Milky Way galaxy, extragalactic astronomy, and introduction to cosmology. Prerequisite: ASTR 4033. (Typically offered: Spring Even Years)

ASTR 4073. Cosmology. 3 Hours.
An introduction to modern Big Bang cosmology. The course covers the origin, evolution, and structure of the Universe, based on the Theory of Relativity. Prerequisite: PHYS 3613 or CHEM 3504. (Typically offered: Spring Odd Years)

ASTR 5033. Astrophysics I: Stars and Planetary Systems. 3 Hours.
An introduction to astrophysics covering stellar structure and evolution, the properties of the solar system, and extrasolar planetary systems. (Typically offered: Fall Odd Years)
This course is cross-listed with SPAC 5033.

ASTR 5043. Astrophysics II: Galaxies and the Large-Scale Universe. 3 Hours.
An introduction to astrophysics covering the interstellar medium, the Milky Way galaxy, extragalactic astronomy, and introduction to cosmology. Prerequisite: ASTR 5033 or SPAC 5033. (Typically offered: Spring Even Years)

ASTR 5073. Cosmology. 3 Hours.
An introduction to modern physical cosmology covering the origin, evolution, and structure of the Universe, based on the Theory of Relativity. (Typically offered: Spring Odd Years)