

ASTRONOMY (ASTR)

ASTR 101 - Introduction to Astronomy (4 Credits)

An introduction to the solar system and universe accomplished with interactive lectures, demonstrations, and laboratory experience. Designed primarily for the non-science major.

Carolina Core: SCI

ASTR 201 - Introduction to Astronomy II: The Dark Universe (3 Credits)

Astronomical topics including stellar death, black holes, dark matter, dark energy and cosmology. Astronomical techniques and application of the scientific method in astronomy.

Prerequisites: ASTR 101 or SCHC 115.

Carolina Core: SCI

ASTR 320 - Introduction to Radio Astronomy (3 Credits)

Nature of the sun, planets; galactic and extragalactic sources at radio wavelengths; quasars; techniques, detectors, and telescopes.

Prerequisites: ASTR 211, MATH 115 or equivalent, and PHYS 202, PHYS 212.

ASTR 340 - Introduction to Relativistic Astrophysics (3 Credits)

Final states of stellar evolution; white dwarfs, neutron stars, black holes. Cosmology.

Prerequisites: ASTR 211, MATH 115 or equivalent, and PHYS 202, PHYS 212.

Cross-listed course: PHYS 340

ASTR 499 - Undergraduate Research (3 Credits)

Introduction to and application of the methods of research. A written report on work accomplished is required at the end of each semester.

Graduation with Leadership Distinction: GLD: Research

ASTR 533 - Advanced Observational Astronomy (1-3 Credits)

Development of a combination of observational techniques and facility at reduction of data. A maximum of eight hours per week of observation, data reduction, and consultation. Offered each semester by arrangement with the department.

ASTR 534 - Advanced Observational Astronomy (1-3 Credits)

A continuation of ASTR 533. Up to eight hours per week of observation, data reduction, and consultation.

ASTR 599 - Topics in Astronomy (1-3 Credits)

Readings and research on selected topics in astronomy. Course content varies and will be announced in the schedule of classes by title.