

ASTRONOMY (ASTR)

ASTR 1110 Principles of Astronomy Lab

Laboratory course to accompany ASTR 1310. Practical exercises reinforce ASTR 1310 lecture material. Topics include astronomical measurements, Kepler's laws of planetary motion, Newton's law of universal gravitation, stellar spectra, parallax, and the Hertzsprung-Russell diagram. Must be taken concurrently with ASTR 1310.

TCCN: ASTR 1103

ASTR 1111 Planetary Astronomy Lab

Laboratory course to accompany ASTR 1311. Practical exercises reinforce ASTR 1311 lecture material. Topics will include unaided-eye observation, telescopic observation, telescope manipulation and experiments/exercises. Must be taken concurrently with ASTR 1311. Carries no credit towards a major or minor in Physics. Laboratory fee applicable.

ASTR 1112 Stellar Astronomy Lab

Laboratory course to accompany ASTR 1312. Practical exercises reinforce ASTR 1312 lecture material. Topics will include unaided-eye observation, telescopic observation, telescope manipulation and experiments/exercises. Must be taken concurrently with ASTR 1312. Carries no credit towards a major or minor in Physics. Laboratory fee applicable.

ASTR 1310 Principles of Astronomy

A one semester introductory survey course of astronomy. Topics include discovery in solar system of planets and moons, spectra, our sun and other stars, black holes and neutron stars, star clusters, nebula, galaxies and the structure of the universe. Designed to fulfill laboratory science core curriculum requirements. Must be taken concurrently with ASTR 1110.

TCCN: ASTR 1303

ASTR 1311 Planetary Astronomy

An introductory survey of the solar system to include astronomical history and instrumentation, the sun, planets and their moons, comets, asteroids and meteoroids and meteorites. Designed to fulfill laboratory science core curriculum requirements. Must be taken concurrently with ASTR 1111. Carries no credit toward a major or minor in Physics.

ASTR 1312 Stellar Astronomy

An introductory survey of stellar properties and life cycles, H-R Diagrams, as well as galaxies and Hubble's Law. Instrumentation techniques used to collect astronomical data is discussed in addition to topics from cosmology including General Relativity theory and the Big Bang theory. May be taken independently from ASTR 1311. Designed to fulfill laboratory science core curriculum requirements. Must be taken concurrently with ASTR 1112. Carries no credit towards a major or minor in Physics.