

# ASTRONOMY

## **AST V01 - ELEMENTARY ASTRONOMY - 3 Units**

Hours: 3 lecture weekly

A general introduction to astronomy covering: the history of astronomy; the solar system; the evolution of stars; galaxies; and cosmology. The course will include a descriptive analysis of all known laws which are relevant to the dynamics of the universe. The study will center on astronomical beliefs which have influenced human thinking, philosophy, and morals.

Field trips may be required. Formerly Ast 1. Transfer credit: CSU; UC.

## **AST V01L - ELEMENTARY ASTRONOMY LABORATORY - 1 Unit**

Prerequisite: AST V01 or concurrent enrollment

Hours: 3 laboratory weekly

This is a laboratory course in introductory astronomy that teaches observations of various astronomical objects interactively through a series of computer-based projects that act as a virtual telescope.

Transfer credit: CSU; UC.

## **AST V02 - ASTRONOMY AND ASTROPHYSICS - 4 Units**

Prerequisite: MATH V03 or 1 year of high school intermediate algebra (Algebra II) with grade of C or better

Hours: 3 lecture, 3 laboratory weekly

A course in astronomy covering the physics of light and telescopes, atomic structure, thermodynamics, mechanics and modern cosmological theories. This course includes laboratory investigations in classical optics, spectroscopy, Doppler effect, thermodynamics, atomic and nuclear physics.

Field trips may be required. Formerly Ast 2. Transfer credit: CSU; UC.