

California 2025-2026 Undergraduate and Graduate Catalog State University, Long Beach

Courses

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Astronomy

ASTR 100 - Astronomy

(3 units)

Corequisites: One course from General Education Subject Area 2 and [ASTR 100L](#)

Introductory course in astronomy. Astronomical measurement; planetary motion; Kepler and Newton's laws; evolution of stars; relativity & black holes; principles of radiation and blackbody law; basic cosmology.

Both grading options. (Lecture 3 hrs.)

ASTR 100L - Introductory Astronomy Laboratory

(1 unit)

Prerequisites/Corequisites: One course from Subject Area 2 of GE requirements; [ASTR 100](#)

Introductory laboratory course in astronomy. Topics covered include astronomical coordinates; graphing real and simulated data; solar and planetary dynamics; nature of light and spectroscopy; classification of stars; star clusters; distance measurements; large-scale structure of the universe; age of the universe.

Both grading options. (Laboratory 3 hrs.) Not open for credit to students with credit in ASTR 101.

ASTR 370 - Planetary Environments

(3 units)

Prerequisites: GE Foundation requirements and GE 5A category; upper division standing.

Planets and moons analyzed as to surface geology, interiors, atmospheres, etc. Methodologies and scientific reasoning about nature and origins of features. Origin of terrestrial life, including role of extinction events, and probable requirements for life elsewhere in universe.

Both grading options. (Lecture 3 hrs.)

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