

Astronomy

Degree: A.S. - General Science

Area: Science and Engineering

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Astronomy is part of the general education program at American River College. The astronomy sequence includes a laboratory and complies with general education transfer requirements.

Mathematics - Physical Science

Requirements for Degree Major

Students must complete 18 units of transfer-level course work in addition to other graduation requirements. Courses may be selected from astronomy, chemistry, engineering, geology, mathematics, physical geography, physical science, physics and statistics. See graduation requirements.

General Science

Requirements for Degree Major

18 units of transfer level course work in science in addition to other graduation requirements
Two laboratory courses must be included, one in a physical science and one in a biological. Courses may be selected from anatomy, astronomy, bacteriology, biology, botany, chemistry, geology, physical anthropology, physical geography, physical science, physiology, physics and zoology. See ARC graduation require-

Astronomy (ASTR)

ASTR 300 Introduction to Astronomy 3 Units

Formerly: ASTR 1

Prerequisite: None

Advisory: MATH 100 and 110.

Course Transferable to UC/CSU

Hours: 54 hours LEC

This course covers an evaluation of common astronomical events, utilizing history, observations, reading and discussion. It is intended primarily for students with a limited background in science. AA/AS area 3A; CSU area B1; IGETC area 5.

ASTR 400 Astronomy Laboratory 1 Unit

Formerly: ASTR 2

Prerequisite: None

Corequisite: ASTR 300.

Course Not Transferable UC or CSU

Hours: 54 hours LAB

This course covers the practical use of a telescope for both visual observation and astro-photography; identification of constellations; collecting and interpreting scientific data; telescope optics; and the use of sky charts and handbooks to plan observation. Students are not required to have a telescope. Two or three night field trips are required. AA/AS area A; CSU area B1; IGETC area 5A.

ASTR 480 Honors Introduction to Astronomy 1 Unit

Formerly: ASTR 1H

Prerequisite: Cumulative GPA of 3.0 or above; ENGWR 300 or 480 with a grade of "C" or better.

Corequisite: ASTR 300.

Course Transferable to UC/CSU

Hours: 18 hours LEC

This course covers an evaluation of common astronomical events, utilizing history, observations, reading and discussion. It is an introduction to Astronomy for students with a serious interest in science and requires the ability to understand mathematical and physical concepts, but previous high school algebra and trigonometry classes provide sufficient qualification. Students will attend the ASTR 300 lectures (3 hours/week) plus an additional hour of discussion each week to examine the topics from lecture at a more rigorous level.