

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

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- ASTR 310 The Solar System 3 Units**  
*Prerequisite: None.*  
*Advisory: MATH 34 with a grade of "C" or better*  
*General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A*  
*Course Transferable to UC/CSU*  
*Hours: 54 hours LEC*  
 This is a descriptive course treating the nature and evolution of the solar system. Topics will include the origins and characteristics of the planets and their satellites, comets, meteorites, and the sun. Emphasis will be placed on how astronomers gain and refine their knowledge of the Universe and interpret the latest results of planetary exploration. Students enrolled in this class will have the opportunity to attend astronomy related off-campus activities, such as star parties.
- ASTR 320 Stars, Galaxies, and Cosmology 3 Units**  
*Prerequisite: None.*  
*Advisory: MATH 34 with a grade of "C" or better*  
*General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A*  
*Course Transferable to UC/CSU*  
*Hours: 54 hours LEC*  
 This is a descriptive course treating the nature and evolution of stars, galaxies, and the astronomical theories of the origin and evolution of the universe. Emphasis will be placed on how astronomers gain and refine their knowledge of the universe and interpret the latest results of space exploration. Students enrolled in this class will have the opportunity to attend astronomy related off-campus activities, such as star parties.
- ASTR 330 Introduction to Astrobiology 3 Units**  
*Prerequisite: None.*  
*Advisory: MATH 34 with a grade of "C" or better.*  
*General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A*  
*Course Transferable to UC/CSU*  
*Hours: 54 hours LEC*  
 This course will investigate the scientific search for life beyond the Earth. Students will investigate the origin and evolution of stars, planets, and life on Earth, also estimating the likelihood of life existing elsewhere in the universe. Students will also study past, present, and planned attempts to communicate with possible alien civilizations in our Galaxy.
- ASTR 400 Astronomy Laboratory 1 Unit**  
*Prerequisite: None.*  
*Corequisite: ASTR 310 or ASTR 320*  
*Advisory: MATH 34 with a grade of "C" or better*  
*General Education: AA/AS Area IV; CSU Area B3; IGETC Area 5A*  
*Course Transferable to UC/CSU*  
*Hours: 54 hours LAB*  
 This course covers astronomical observation with the eye, telescopes, Charged Coupled Device (CCD) cameras, and spectrometers. The analysis and interpretation of astronomical data is emphasized. Students enrolled in this class will have the opportunity to attend astronomy related off-campus activities, such as star parties.
- ASTR 435 Astronomy Frontiers 3 Units**  
*Prerequisite: ASTR 310 (The Solar System) or 320 (Stars, Galaxies, and Cosmology) with a grade of "C" or better*  
*Advisory: MATH 34 with a grade of "C" or better.*  
*Course Transferable to UC/CSU*  
*Hours: 54 hours LEC*  
 This is a continuation course for students of ASTR 310 and/or ASTR 320 who want to explore the cutting edge of astronomical research. The topics covered will be based on the latest astronomical discoveries and will include such things as black holes, relativity and warped space-time, dark matter, cosmology, quasars, gravitational waves, and the search for extraterrestrial life. Emphasis will be placed on how astronomers use science to understand the Universe and the provisional nature of science.
- ASTR 494 Topics in Astronomy .5-4 Units**  
*Prerequisite: None*  
*Course Transferable to UC/CSU*  
*Hours: 72 hours LEC*  
 This course is designed to enable both science and non-science students to learn about recent developments in astronomy. Selected topics would not include those which are part of current course offerings. This course may be repeated for credit providing there is no duplication of topics.
- ASTR 495 Independent Studies in Astronomy 1-3 Units**  
*Prerequisite: None*  
*Course Transferable to UC/CSU*  
*Hours: 54 hours LEC*  
 This is an Independent Studies course that involves an individual student or small group of students in study, research, or activities beyond the scope of regular offered courses, pursuant to an agreement between among college, faculty member, and student(s).

**ASTR 499 Experimental Offering in .5-4 Units  
Astronomy**

*Prerequisite: None*

*Course Transferable to CSU*

*Hours: 72 hours LEC*

See Experimental Offerings

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Astronomy