

## MINOR IN ASTRONOMY

### Minors offered by SCE

The university policy on minors appears in the "General Information" section of the undergraduate catalog. Students must include the minor in the degree plan no later than achievement of senior status. Minors must be completed as part of a planned degree program prior to graduation. Substitutions in a minor can be initiated by either the major- or minor-granting department, but must be approved by both departments. A minor is displayed on the transcript after graduation but is not displayed on the diploma.

Minors are not required of any students and must not extend beyond the total number of required hours for program completion (120 for most SCE majors; 122 for computer science; 132 for computer engineering). For each minor, students must complete at least 15 hours with at least 9 of those hours drawn from 3000- and/or 4000-level course offerings. All courses for minor credit must be completed with a grade of "C" or above.

### Minor in Astronomy (17 hours)

This minor is designed to provide students with a background in astronomy that focuses on answering the fundamental questions about our origins that humans have pondered over the ages. Building on an introductory survey of astronomy, students will explore topics in planetary science such as asteroid collisions with the Earth or the science of extrasolar planets. The upper level requirements will offer students the choice of focusing on the origin and evolution of stars, our Solar System, our universe, and life elsewhere in the universe.

SCE Requirements	UHCL Course Title	TCCNS*	CODE
Required Courses (8 hours):	ASTR 1303/1103 Stars and Galaxies w/ Lab ASTR 1304/1104 The Solar System w/ Lab		
Elective Courses (9 hours):	Any 3 of the upper level courses listed: ASTR 3311 Modern Astronomy ASTR 4312 Principles of Astrobiophysics (prerequisites: CHEM 1311/1111, CHEM 1312/1112; PHYS 1301/1101, PHYS 1302/1102 or PHYS 2325/2125, PHYS 2326/2126) ASTR 4311 Universal Origins (prerequisites: CHEM 1311/1111, CHEM 1312/1112; PHYS 1301/1101, PHYS 1302/1102 or PHYS 2325/2125, PHYS 2326/2126) PHYS 4362 Fundamentals of Astroparticle Physics (Prerequisite: PHYS 3303 or equivalent) ASTR 4391 Selected Topics in Space Science (Advisor approval required)		

## General Degree Requirements

- Students must complete at least 120 semester credit hours. A minimum of 45 hours of the 120 semester hours must be advanced (3000-4000 level) course work according to the requirements of the respective major.
- Students must complete the University Core Curriculum requirements (refer to Core Curriculum Requirements section of this catalog).
- Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
  - Six hours of U.S. History (three hours may be Texas History).
  - Six hours of Constitutions of the United States and Texas.
- Students must demonstrate writing proficiency by completing nine hours of lower-level (1000-2000 level) and upper-level (3000-4000 level) English composition course credit with a minimum grade of "C-" or better. Some majors may require higher grades in English composition.
- Students must complete at least 25% of the credit hours required for the degree (i.e., 30 semester credit hours for a 120 credit hour program) through instruction offered by UHCL to fulfill the Southern Association of Colleges and Schools (SACS) residency requirements.
- Students must complete the final 30 semester hours of 3000 and 4000 level course work in residence at UHCL.
- Students must complete a minimum of 12 semester credit hours of upper-level (3000-4000 level) coursework in the major in residence at UHCL.
- Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.