

ASTRONOMY

Associate in Science

Transfer Preparation * (Major Code: 01500)

Some areas of study in astronomy include the sun, the solar system, stars and stellar evolution, the Milky Way, galaxies, and cosmology. Astronomers work for educational institutions as professors and researchers, for government agencies, and in space industries.

Astronomy curricula stress very strong initial study in mathematics, physics, and computer science. Students are encouraged to start with mathematics and physics in the order listed below since these courses are prerequisites for the subsequent courses.

Program Student Learning Outcome

- Develop mathematical skills, acquire physics knowledge, and practice applying these skills and knowledge in astrophysical situations.

Course	Title	Units
First Semester		
MATH 250	ANALYTIC GEOMETRY AND CALCULUS I	5
Units		5
Second Semester		
MATH 251	ANALYTIC GEOMETRY AND CALCULUS II	4
PHYS 270	PRINCIPLES OF PHYSICS I	3
PHYS 271	PRINCIPLES OF PHYSICS LABORATORY I	1
Units		8
Third Semester		
ASTR 205	ELEMENTARY ASTROPHYSICS	3
MATH 252	ANALYTIC GEOMETRY AND CALCULUS III	4
PHYS 272	PRINCIPLES OF PHYSICS II	3
PHYS 273	PRINCIPLES OF PHYSICS LABORATORY II	1
Units		11
Fourth Semester		
PHYS 274	PRINCIPLES OF PHYSICS III	3
PHYS 275	MODERN PHYSICS AND PRINCIPLES OF PHYSICS LABORATORY III	2
Units		5
Total Units		29

Code	Title	Units
Recommended Elective		
CHEM 200	GENERAL CHEMISTRY I	5

* Students planning to transfer to a four-year college or university should complete courses specific to the transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center. See catalog Transfer Courses Information (<http://catalog.swccd.edu/student-success-support-program/student-services-and-college-services/other-services/transfer-courses/>) section for further information.

To earn an associate degree, additional general education and graduation requirements (<http://catalog.swccd.edu/certificates-certifications-degrees-csuuc-requirements/>) must be completed.