

# ASTRONOMY ASSOCIATE IN SCIENCE DEGREE

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Division: Natural Sciences

PROGRAM CODE: 2S08436

The **Astronomy Associate in Science Degree** prepares students to transfer to CSU/UC and obtain a baccalaureate degree in the following majors: astronomy, astrophysics, or physics. This degree may also support admission to research internships and attempts to gain entry-level employment within the field, such as observatory and planetarium operations. This degree requires 20-21 units in the major, in addition to other graduation requirements.

Code	Title	Units
<b>Required Courses (16 units):</b>		
ESC 116 F	Astronomy	3
or ESC 116HF	Honors Astronomy	
ESC 116LF	Astronomy Lab	1
PHYS 221 F	General Physics I	4
PHYS 222 F	General Physics II	4
PHYS 223 F	General Physics III	4
<b>Restricted Electives (4-5 units):</b>		
CHEM 111AF	General Chemistry I	5
CHEM 111BF	General Chemistry II	5
MATH 151 F	Calculus I (formerly MATH 150AF)	4
or MATH 151HF	Honors Calculus I (formerly MATH 150HF)	
MATH 152 F	Calculus II (formerly MATH 150BF)	4
MATH 251 F	Multivariable Calculus (formerly MATH 250AF)	4
MATH 252 F	Linear Algebra and Differential Equations (formerly MATH 250BF)	4

## Program Level Student Learning Outcomes

**OUTCOME 1:** Demonstrate an understanding of how the scientific method is used to explore topics in astronomy.

**OUTCOME 2:** Explain the motion, formation, and evolution of celestial objects in the solar system and beyond.

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[https://www.curricunet.com/fullerton/reports/program\\_report.cfm?programs\\_id=1282](https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=1282)