

# PLANETARY SCIENCE AND ASTRONOMY, MINOR

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Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

## Program Requirements

Requirement	Credits
Requirements for the Minor	19

### Requirements for the Minor

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10>). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student's major(s).

Code	Title	Credits
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
ASTRO 401	Fundamentals of Planetary Science and Astronomy	4
ASTRO 402W	Astronomical Telescopes, Techniques, and Data Analysis	3
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
Select one of the following:		3
ASTRO 1	Astronomical Universe	
ASTRO 5	The Sky and Planets	
ASTRO 6	Stars, Galaxies, and the Universe	
ASTRO 10	Elementary Astronomy	
ASTRO 11	Elementary Astronomy Laboratory	
ASTRO 291	Astronomical Methods and the Solar System	
Select three of the following:		9
ASTRO 120	The Big Bang Universe	
ASTRO 130	Black Holes in the Universe	
ASTRO 140	Life in the Universe	
ASTRO 292	Astronomy of the Distant Universe	