

# ASTROBIOLOGY, MINOR

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	18-19

At least 6 credits must be taken at the 400 level.

## 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>		
BIOL/GEOSC 474	Astrobiology	3
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
ASTRO 140 or ASTRO 291	Life in the Universe Astronomical Methods and the Solar System	3
EARTH 2 or GEOSC 21	The Earth System and Global Change Earth and Life: Origin and Evolution	3
GEOSC 204 or BIOL 427	Geobiology Evolution	3-4
<b>Supporting Courses and Related Areas</b>		
<i>Supporting Courses and Related Areas: Require a grade of C or better</i>		
Select 6 credits of the following:		6
ASTRO 475W	Stars and Galaxies	
BIOL 405	Molecular Evolution	
BMB 401	General Biochemistry	
BMB 402	General Biochemistry	
GEOSC 416	Stable and Radioactive Isotopes in Geosciences: Introduction	
GEOSC 419	The Organic Geochemistry of Natural Waters and Sediments	
METEO 466	Planetary Atmospheres	
MICRB 201	Introductory Microbiology	