

ASTRONOMY MINOR

General Degree Requirements

To earn a baccalaureate degree, all students must complete successfully, in addition to any other requirements, the University of Montana General Education Requirements. Please refer to the General Education Requirements page (<https://catalog.umat.edu/academics/general-education-requirements/>) for more information.

Additional requirements for graduation can be found on the Degree/Certificate Requirements for Graduation page (<https://catalog.umat.edu/academics/graduation-requirements/>).

Unless otherwise noted in individual program requirements, a minimum grade point average of 2.00 in all work attempted at the University of Montana-Missoula is required for graduation. Please see the Academic Policies and Procedures page (<https://catalog.umat.edu/academics/policies-procedures/>) for information on how your GPA is calculated.

Courses taken to satisfy the requirements of a major, minor, or certificate program must be completed with a grade of C- or better unless a higher grade is noted in the program requirements.

Minor - Astronomy

- The mathematics prerequisites for courses in the Minor in Astronomy include M 171, M 172, and M 273

Course Requirements

Code	Title	Hours
Lower-Division Physics Courses		
Complete one of the following Physics sequences: ¹		10
Algebra- and Trigonometry-based Physics:		
PHSX 205N & PHSX 206N	College Physics I and College Physics I Laboratory	
PHSX 207N & PHSX 208N	College Physics II and College Physics II Laboratory	
Calculus-based Physics:		
PHSX 215N & PHSX 216N	Fundamentals of Physics with Calculus I and Physics Laboratory I with Calculus	
PHSX 217N & PHSX 218N	Fundamentals of Physics with Calculus II and Physics Laboratory II with Calculus	
Lower-Division Astronomy Courses		
Complete all of the following courses:		
ASTR 131N	Planetary Astronomy	3
ASTR 132N or ASTR 142N	Stars, Galaxies, and the Universe The Evolving Universe	3-4
Electives		
Complete three of the following courses:		9
ASTR 351	Planetary and Exoplanet Science	
ASTR 353	Galaxies and Cosmology	
ASTR 362	Observational Astronomy	
ASTR 363	Stellar Astronomy & Astrophysics I	
Total Hours		25-26

¹ The Physics with Calculus series (PHSX 215N - PHSX 218N) is strongly recommended.