

APS Undergraduate Minor Program

Declaration of a minor in Astrophysical and Planetary Sciences is open to any student enrolled at CU-Boulder. Coursework applied to the minor may be applied to another major or towards core curriculum requirements. Minimum requirements for a minor include:

1. A minimum of six APS courses, including at least 3 advanced courses (numbered above 3500).
2. All course work applied to a minor must be completed with a grade of C- or better (no pass/fail work may be applied). The grade point average for all minor degree course work must be equal to 2.00 (C) or higher.
3. Students pursuing an individually structured major or a major in distributed studies are not eligible to earn a minor.
4. Students are allowed to apply no more than 3 courses, including 2 advanced courses, of transfer work toward a minor.

Astrophysical & Planetary Sciences Minor Program

Elementary Course Work (*Maximum* of 3 Courses)

*ASTR 1030/1040 Accelerated Introductory Astronomy 1 & 2 (Solar System / Stars & Galaxies)
or

ASTR 1010/1020 Introductory Astronomy 1 & 2 **with permission from lead faculty mentor.**

ASTR 2000 Ancient Astronomies of the World

ASTR 2010 Modern Cosmology - Origin and Structure of the Universe

ASTR 2020 Introduction to Space Astronomy

ASTR 2030 Black Holes

ASTR 2040 Life in the Universe

ASTR/ASEN 2500 Gateway to Space

ASTR 2600 Computational Techniques

Advanced Course Work (*Minimum* of 3 Courses):

- **Two courses from one upper-level course sequence:**
 - Planetary Sequence: ASTR 3720 Planets & Their Atmospheres AND ASTR 3750 Planets, Moons, & Rings
 - OR
 - Astrophysics Sequence: ASTR 3730 Stellar & Interstellar; ASTR 3830 Galactic & Extragalactic
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- **Plus 1 course from the following:**
 - ASTR 3510 Observations & Instrumentation 1 (with instructor permission)
 - ASTR 3520 Observations & Instrumentation 2
 - ASTR 3710 Formation & Dynamics of Planetary Systems
 - ASTR 3720 Planets and Their Atmospheres
 - ASTR 3730 Astrophysics 1
 - ASTR 3740 Cosmology and Relativity
 - ASTR 3750 Planets, Moons and Rings
 - ASTR 3760 Solar and Space Physics
 - ASTR 3830 Astrophysics 2
 - ASTR 4330 Cosmochemistry
 - ATOC 4720 Introduction to Atmospheric Physics and Dynamics
 - ASTR 4840 Independent Research