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

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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 |
-----|------------------------------------------------------------|---------|
|     | Prescribed Courses: Require a grade of C or better         |         |
| BIOL/GEOSC 474 | Astrobiology                                               | 3       |

Additional Courses: Require a grade of C or better

- ASTRO 140        Life in the Universe                          | 3       |
- or ASTRO 291    Astronomical Methods and the Solar System     |
- EARTH 2          The Earth System and Global Change            | 3       |
- or GEOSC 21     Earth and Life: Origin and Evolution           |
- GEOSC 204        Geobiology                                    | 3-4     |
- or BIOL 427     Evolution                                     |

Supporting Courses and Related Areas: Require a grade of C or better

Select 6 credits of the following:

- 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: |
- GEOSC 419       The Organic Geochemistry of Natural Waters and  |
- METEO 466       Planetary Atmospheres                          |
- MICRB 201       Introductory Microbiology                      |