



THE UNIVERSITY OF ARIZONA
COLLEGE OF SCIENCE

LUNAR & PLANETARY LABORATORY

Astrobiology Undergraduate Minor Program Approval

Undergraduate students may obtain a minor in Astrobiology. The Astrobiology minor consists of 18 units:

- 9 units of core courses (yellow highlight)
- 9 units of elective courses
- All elective courses subject to final faculty approval.

| | |
|--------------|---------------|
| Date | SID |
| Student Name | Email Address |
| Major Dept. | Other minor |

| Course Number | Course Title | Units | Grade | Completed |
|-----------------------------|--|-------|-------|-----------|
| MCB 315 | Key Concepts in Quantitative Biology | 3 | | |
| ASTR 488 | Astrochemistry | 3 | | |
| ASTR 475 | Planetary Astrobiology | 3 | | |
| PTYS 450 | Origin of the Solar System and Other Planetary Systems | 3 | | |
| GEOS 484 | The Coevolution of Earth and the Biosphere | 3 | | |
| MCB 437 | Life in Extreme Environments | 3 | | |
| ASTR 202 <u>OR</u> PTYS 214 | Life in the Universe <u>OR</u> Life in the Cosmos | 3 | | |
| ASTR 300A | Astronomy & Astrophysics | 3 | | |
| BIOC 384 | Foundations in Biochemistry | 3 | | |
| BIOC 385 | Metabolic Biochemistry | 3 | | |
| BIOC 462A | Biochemistry | 4-5 | | |
| BIOC 462B | Biochemistry | 4-5 | | |
| CHEM 400B | Chemical Measurements Laboratory | 3 | | |
| CHEM 480A | Physical Chemistry I | 3 | | |
| CHEM 480B | Physical Chemistry II | 3 | | |
| CHEM 481 | Biophysical Chemistry | 3 | | |

| | | | | |
|-------------------------|---|-----|--|--|
| CMM/ECOL/MCB 479 | Art of Scientific Discovery | 3 | | |
| ECOL 380 | Math Models in Biology | 3 | | |
| ECOL 408L | Genes, Biotechnology and the Environment | 2 | | |
| ECOL 426 | Population Genetics | 3 | | |
| ECOL 453 | Functional and Evolutionary Genomics | 4 | | |
| ECOL 465 | Phylogenetic Biology | 3 | | |
| ECOL 496N | Non-Linear Dynamics of Biological Systems | 2-4 | | |
| ENVS/MIC 425 | Environmental Microbiology | 3 | | |
| GEOG/ECOL/GEOS 338 | Biogeography | 3 | | |
| GEOS 302 | Principles of Stratigraphy and Sedimentation | 4 | | |
| GEOS 426A | Research Methods in Aquatic Sciences | 6 | | |
| GEOS 430 | The Chemical Evolution of Earth | 3 | | |
| GEOS 466 | Stable Isotope Geochemistry and Paleoclimate | 3 | | |
| GEOS 478 | Global Change | 3 | | |
| GEOS 497K | Dendroecology | 3 | | |
| MCB 396I | Career Exploration and Professional Development | 2 | | |
| MCB 414 | Science and Theology | 3 | | |
| PHIL/ECOL 421 | Philosophy of the Biological Sciences | 3 | | |
| PTYS/GEOS/ASTR/PHYS 403 | Physics of the Solar System | 3 | | |
| PTYS 407 | Chemistry of the Solar System | 3 | | |
| PTYS/ASTR/GEOS 442 | Mars | 3 | | |

| | | | |
|-----------------|--------------------------------|--|------|
| Minor Completed | | | |
| | Astrobiology advisor signature | | Date |

Revised 09/27/23