

ASTROBIOLOGY

Learning Outcomes

1. **KNOW:** Students will develop and demonstrate advanced knowledge of a sub-specialty of geosciences, including understanding of, for example, historical and cutting-edge concepts, approaches, and techniques used in the field.
2. **ANALYZE & CREATE:** Students will demonstrate the ability to independently conceive a research hypothesis or question, and to contextualize the results of data collection and analysis.
3. **RESEARCH IMPLEMENTATION:** Students will demonstrate the ability to develop and implement scientific approaches, utilizing data collection, analysis, or numerical models, to address a question or hypothesis.
4. **COMMUNICATE:** Students will develop the ability to communicate their research findings to an audience of their peers in both written and oral form.
5. **QUANTIFY:** Students will develop the ability to incorporate quantitative analysis of data to support interpretations.
6. **CRITICAL THINKING:** Graduates will be able to critically analyze and assess work by others in their field of specialty.
7. **PROFESSIONAL PRACTICE:** Students will demonstrate knowledge of ethical standards in research and scholarship, and the ability to collaborate in a collegial and ethical manner with other professionals within their field or with diverse scientific backgrounds.