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.