Astrophysics BS* 2019-2020 Student Learning Outcomes

| Outcome | | Assessment Methods |
|---------|---|--|
| 1 | Students will demonstrate basic conceptual understanding of celestial coordinates, Kepler's laws, and stellar properties. | Midterm exam Final exam |
| 2 | Students will apply their numerical and computational skills to solve complex problems involving, for example, phase diagrams in thermal physics, celestial mechanics, interior stellar structure, Galactic evolution, and black holes. | Homework assignments/projects Final exam |
| 3 | Students will perform an advanced experimental project and data analysis, including distinguishing statistical and systematic errors, propagating errors, and representing data graphically. | Final project Oral presentation of project |
| 4 | Students will successfully pursue graduate education after completing BS in Astrophysics. | Exit survey Exit interview |
| 5 | Students will demonstrate a basic understanding of the research process. | Research proposal Homework assignment |
| 6 | Students will apply modern techniques and methodologies to collect/produce data as well as to analyze and interpret it. | Research report Survey |
| 7 | Students will demonstrate the ability to communicate their research findings to the department. | Research report Oral presentation of research |

^{*}Preliminary Outcomes