

Astrophysics BS
2018-2019 Student Learning Outcomes

Outcome		Assessment Methods
1	<i>Students will demonstrate basic conceptual understanding of celestial coordinates, Kepler's laws, and stellar properties.</i>	Midterm exam Final exam
2	<i>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.</i>	Homework assignments/projects Final exam
3	<i>Students will perform an advanced experimental project and data analysis, including distinguishing statistical and systematic errors, propagating errors, and representing data graphically.</i>	Final project Oral presentation of project
4	<i>Students will successfully pursue graduate education after completing BS in Astrophysics.</i>	Exit survey Exit interview
5	<i>Students will demonstrate a basic understanding of the research process.</i>	Research proposal Homework assignment
6	<i>Students will apply modern techniques and methodologies to collect/produce data as well as to analyze and interpret it.</i>	Research report Survey
7	<i>Students will demonstrate the ability to communicate their research findings to the department.</i>	Research report Oral presentation of research