Astrophysics BS 2016-2017 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