

AS 102

Course Objectives

Content	Objectives
NASA Planetary Missions	Students will be able to understand what planetary missions NASA is currently undertaking, what they are designed to investigate, and what results have been obtained to date.
Other Planetary Missions	Students will be able to understand what planetary missions are being undertaken by other national space agencies such as ESA and JAXA, what they are designed to investigate, and what results have been obtained to date.
Variable Stars	Students will be able to understand the various types of variable stars, their study, and their importance in astronomical research.
Special Relativity	Students will understand the concepts of special relativity and their application to astronomy and cosmology.
Non-Visual Astronomy	Students will understand how astronomical observations at non-visual wavelengths are conducted and their importance to astronomy.
Cosmology	Students will understand the various cosmological models for the universe and their supporting evidence.
Extra-Solar Planets	Students will understand the various methods used to discover extra-solar planets and the results of those searches.
SETI	Students will understand the rationale behind the search for extra-terrestrial life and the prospects for success.
Telescope Operation	Students will be able to operate computer-controlled telescopes, including their set-up, and using them to locate various celestial objects.
CCD Imaging	Students will be able to operate CCD imagers, including taking the images, processing the images, and analyzing them.