AST Astronomy

AST 100 Astronomy Survey (3-0) 3 crs.
Introduces the main concepts of contemporary astronomy using a scientific approach. Topics include the scientific method, the celestial sphere, celestial motions, gravity, light, telescopes, the Solar System, stars, the interstellar medium, galaxies, and cosmology. Current research in the different areas will be discussed. Knowledge of high school algebra is assumed. For science and non-science majors. IAI P1 906

AST 101 Introductory Astronomy (3-2) 4 crs.
Introduces the various topics of astronomy using a scientific approach. Covers the origin of the universe, structure and composition of galaxies, properties and life cycle of stars, the solar system, historical astronomy, constellations, meteors, and comets. Knowledge of high school algebra is assumed. IAI P1 906L

AST 112 The Solar System (3-2) 4 crs.
Introduces the main concepts of solar system astronomy. Topics include the fundamentals of astronomy, planetary motion, the Earth, the Moon, terrestrial planets, Jovian planets, small bodies in the solar system, the Sun, the formation of the solar system, other planetary systems, and the possibility of extraterrestrial life. Current research in the different areas will be discussed. Knowledge of high school algebra is assumed. For science and non-science majors. IAI P1 906L

AST 115 Stars and Galaxies (3-2) 4 crs.
Introduces the main concepts of stellar, galactic, and extra-galactic astronomy. Topics include life cycles of stars, supernovae, black holes, interstellar medium, structure of the Milky Way galaxy, galaxy classification, galaxy interactions, dark matter, dark energy and the Big Bang model. Current research in the different areas will be discussed. Knowledge of high school algebra is assumed. For science and non-science majors. IAI P1 906L

AST 150 Observational Techniques (1-2) 2 crs.
Introduces students to telescopes and astronomical imaging devices. Includes properties and usage of telescopes, types of imaging devices, such as cameras and CCDs, methods of astronomical observations, and astrophotography. This class is only offered at night. For science and non-science majors.
Prerequisite: AST 100, AST 112 or AST 115 with a grade of C or better, or consent of instructor.