**ASTR - Physics-Astronomy**

**ASTR 110IN Introduction to Astronomy: Mysteries of the Sky: 3 Credits (3 Lec)**
An introduction to contemporary astronomy that explores the nature, methods, and limitations of scientific inquiry within the context of our struggle to understand the structure and evolution of the Universe. Topics include the history of astronomy, motions of the night sky, the solar system, stellar evolution, galaxies, and cosmology. Common Exams.

**ASTR 371 Solar System Astronomy: 4 Credits (3 Lec, 1 Lab)**
PREREQUISITE: PHSX 205, PHSX 220, or PHSX 240
COREQUISITE: PHSX 207, PHSX 222, or PHSX 242. Covers the origin and evolution of our solar system, including detailed examinations of the sun, earth, moon, other planets, and satellites. Exciting new discoveries and emerging research results will be integrated into the course. The laboratory operates in a "project mode" and includes experiments with models that can be done indoors as well as with the use of telescopes.

**ASTR 372 Stars and the Milky Way: 3 Credits (3 Lec)**
PREREQUISITE: PHSX 224. Taught Spring Term: This course will provide an introduction to stars and the Milky Way. Topics to be covered include the classification of stellar spectra, stellar atmospheres, the interior of stars, the interstellar medium and star formation, stellar evolution, stellar remnants, Milky Way structure, and Milky Way kinematics.

**ASTR 373 Extragalactic Astronomy: 3 Credits (3 Lec)**
PREREQUISITE: ASTR 372
COREQUISITE: PHSX 320, PHSX 343. Fall alternate even years: This course will provide an introduction to extragalactic astronomy and astrophysics. Topics to be covered include the nature of galaxies, galactic evolution, the structure of the Universe, active galaxies and supermassive black holes, cosmology, and the early Universe.

**ASTR 476 Theoretical Astrophysics: 3 Credits (3 Lec)**
PREREQUISITE: ASTR 373 and PHSX 425. Taught in Spring Term: A course covering the physics of astronomical objects and various phenomena, such as stellar radiation, compact objects, accretion, galactic dynamics, dark matter, dark energy, and physics of the early Universe.