

## **AST Astronomy**

### **AST 191 THE SOLAR SYSTEM. (3)**

A course emphasizing the nature, origin and evolution of planets, satellites and other objects in the Solar System. Topics also include historical astronomy, the naked eye phenomena of the sky and modern solar system discoveries made by spacecraft. This course may be taken independently of AST 192.

### **AST 192 STARS, GALAXIES AND THE UNIVERSE. (3)**

A course covering the universe outside the Solar System. A principle theme is the origin and evolution of stars, galaxies and the universe at large. Topics also include black holes, quasars and the big bang model of the universe. This course may be taken independently of AST 191.

### **AST 310 TOPICS IN ASTRONOMY AND ASTROPHYSICS (Subtitle required). (3)**

Readings, research, discussions and lectures to illuminate problems of contemporary significance in astronomy and astrophysics. May be repeated to a maximum of six credits under a different subtitle. Prereq: To be announced with subtitle.

### **AST 395 INDEPENDENT WORK IN ASTRONOMY. (1-3)**

Students may select an approved topic for study under the direction of a faculty member. May be repeated to a maximum of 12 credits. Prereq: Major and a standing of 3.0 in the department.

### **AST 591 ASTROPHYSICS I - STARS. (3)**

The physics of stars from star formation to stellar death. Topics include stellar structure and evolution, energy generation and transport, the later stages of stellar evolution and stellar remnants. Prereq: PHY 361, PHY 416G, PHY 417G or consent of instructor. (Same as PHY 591.)

### **AST 592 ASTROPHYSICS II – GALAXIES AND INTERSTELLAR MATERIAL. (3)**

The physics of galaxies and of the interstellar medium. Topics include galaxy formation, evolution and interaction, phases of the interstellar medium, and physical processes in the interstellar medium. Prereq: PHY 361, PHY 416G, PHY 417G or consent of instructor. (Same as PHY 592.)