



AST 160: Special Topics in Astronomy

This course covers topics in astronomy not normally covered in AST 111 and AST 112. Topics may include: current events and discoveries in astronomy, the early history of the universe, general and special relativity, foundations of quantum mechanics, multiverse and multiple-dimension theories, astrobiology and the search for extraterrestrial intelligence (SETI) as well as others. Prerequisite: Completion of AST 111 or AST 112 with a grade of C- or better. One to three lecture hours per week.

Course Student Learning Outcomes

1. Define and discuss terms and concepts used in contemporary astronomy and physics.
2. Describe and discuss leading theories on the nature of the universe and its evolution.
3. Explain the methods of scientific inquiry and its benefits.
4. Explain the philosophical and cultural implications of scientific discoveries towards understanding the universe and our place in it.
5. Describe and explain some of the major experiments and technological applications of leading theories of physics and cosmology.

Credits: 3

Program: Astronomy