

# AST 151 General Astronomy I

## COURSE DESCRIPTION:

Prerequisites: DRE-097 **OR** ENG-002

**AND**

DMA-010, DMA-020, and DMA-030 **OR** MAT 003, or satisfactory score on placement test.

Corequisites: AST 151A

This course introduces the science of modern astronomy with a concentration on the solar system. Emphasis is placed on the history and physics of astronomy and an introduction to the solar system, including the planets, comets, and meteors. Upon completion, students should be able to demonstrate a general understanding of the solar system. *This course has been approved to satisfy the Comprehensive*

*Articulation Agreement (SAC) for the following courses: AST 151, AST 151A, AST 151B, AST 151C, AST 151D, AST 151E, AST 151F, AST 151G, AST 151H, AST 151I, AST 151J, AST 151K, AST 151L, AST 151M, AST 151N, AST 151O, AST 151P, AST 151Q, AST 151R, AST 151S, AST 151T, AST 151U, AST 151V, AST 151W, AST 151X, AST 151Y, AST 151Z, AST 151AA, AST 151AB, AST 151AC, AST 151AD, AST 151AE, AST 151AF, AST 151AG, AST 151AH, AST 151AI, AST 151AJ, AST 151AK, AST 151AL, AST 151AM, AST 151AN, AST 151AO, AST 151AP, AST 151AQ, AST 151AR, AST 151AS, AST 151AT, AST 151AU, AST 151AV, AST 151AW, AST 151AX, AST 151AY, AST 151AZ, AST 151BA, AST 151BB, AST 151BC, AST 151BD, AST 151BE, AST 151BF, AST 151BG, AST 151BH, AST 151BI, AST 151BJ, AST 151BK, AST 151BL, AST 151BM, AST 151BN, AST 151BO, AST 151BP, AST 151BQ, AST 151BR, AST 151BS, AST 151BT, AST 151BU, AST 151BV, AST 151BW, AST 151BX, AST 151BY, AST 151BZ, AST 151CA, AST 151CB, AST 151CC, AST 151CD, AST 151CE, AST 151CF, AST 151CG, AST 151CH, AST 151CI, AST 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- D. Doppler Effect
  - E. Spectral-Line Analysis
- IV. Telescopes
- A. Optical Telescopes
  - B. Radio Telescopes
- V. The Solar System
- A. Formation of the Solar System
  - B. The Sun (Sol)
  - C. Earth and Luna
  - D. Terrestrial Planets and Their Moons
  - E. Jovian Planets and Their Moons
  - F. Pluto, Asteroids, and Other Solar System Bodies

**REQUIRED TEXTBOOKS AND MATERIALS:**

To be selected by Instructor/Discipline Chair.