

**Common Course Outline**  
**ASTM 291-293**  
**Independent Study: Astronomy**  
**1-3 Semester Hours**

**The Community College of Baltimore County**

**Description**

**Independent Study: Astronomy**

Provides opportunities to explore specific astronomical topics in detail; includes archeoastronomy, planets, stellar evolution, space astronomy and cosmology.

1-3 credit hours: 1-3 lecture hours per week. Prerequisite: *ASTM 101 or ERSC 101*.

**Overall Course Objectives**

Upon completion of this course the student will be able to:

1. make detailed presentations concerning the astronomical topic of study.
2. describe, numerically and graphically, various presentations of scientific data.
3. use astronomical terminology to describe processes.
4. apply mathematical methods to the interpretation of scientific data.
5. use scientific data and methods to solve problems involving the astronomical topic of study.
6. explain how astronomers have used results from technologies to develop theoretical models.
7. utilize the Internet and/or other informational resources to research scientific topics.
8. examine relationships among astronomy and various technologies.

**Major Topics**

Some possible topics:

    Archaeoastronomy

    Planets

    Comets and Asteroids

    Space Astronomy

    Stellar Evolution

    Galaxies

    Cosmology

**Course Requirements**

Prerequisite: ASTM 101 or ERSC 101

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following:

    Reading and written assignments

    Written and/or oral exams and/or quizzes

Individual and/or group activities

Writing: The individual faculty member will determine specific writing assignments.

**Other Course Information**

This course can serve as a science elective.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

Date Revised: 3/23/00