

## CUMBERLAND COUNTY COLLEGE

Course: PI 116 Astronomy

Credits: 3

Prerequisites: MA 091

### Description:

This is a course provides a descriptive study of the universe with emphasis on the composition and movements of the bodies in the solar system. The course examines the evolutionary and structural aspects of stars and galactic systems and stresses the fundamental aspects of astronomical theory as it applies to our understanding of the universe. A research project will be a requirement of the course.

### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Recite the laws of planetary motion
- Describe structure of the solar system
- Distinguish stars and planets
- Recognize the class of astronomical objects
- Recall historical background of astronomy
- Order astronomical structures
- Identify certain constellations and asterism

### Topical Outline:

- Historical background
- Celestial sphere and zodiac
- Laws of motion, light, and nature of matter
- Telescopes
- Earth and the moon
- Inner and Outer Planets
- Asteroids, Meteors, Comets
- Birth and Death of stars

### Text:

Exploration: an introduction to Astronomy by Thomas Arny. McGraw Hill

### Student Assessment:

Assessment is based on Mid-semester examinations, Final examination and term project as follows:

Three hour-exams	60%
Final Exam	25%
Term Project	15%

### Academic Integrity:

Plagiarism is cheating. Plagiarism is presenting in written work, in public speaking, and in oral reports the ideas or exact words of someone else without proper documentation.

Whether the act of plagiarism is deliberate or accidental [ignorance of the proper rules for handling material is no excuse], plagiarism is, indeed, a “criminal” offense.

As such, a plagiarized paper or report automatically receives a grade of **ZERO** and the student may receive a grade of **F** for the semester at the discretion of the instructor.

#### Tutoring & Project Assist:

If you are having difficulty with work in this class tutoring is available through the Center for Academic & Student Success. If you think that you might have a learning disability, contact Project Assist at 856.691.8600 x 1282 for information on assistance that can be provided to eligible students.

#### **Before Withdrawing From This Course:**

If a student experiences adverse circumstances while enrolled in this course and considers withdrawing, s/he should see an advisor (division or advisement center) **BEFORE** withdrawing from the class. A withdrawal may cause harmful repercussions to completion rate standards and overall GPA, which can limit or eliminate future financial aid in addition to causing academic suspension.