

## CUMBERLAND COUNTY COLLEGE

Course: BI 122 Environmental Science

Credits: 4

Prerequisites: MA094 and EN060

### Course Description:

An integrated course with laboratory exercises closely correlated to the lectures dealing with the fundamental concepts of environmental science. Topics discussed include biogeochemical cycles, energy cycles and the effects of chemical and energy cycles and the effects of chemical and radioactive substances on the air, water and land masses of the earth. Laboratory activities will focus on quantification and assessment of environmental parameters in local aquatic and terrestrial environments.

### Learning Outcomes:

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

- Apply the scientific method to study the principles of environmental science and scientific questions in general.
- Examine the concepts of systems and how they are used to study the environment.
- Examine the energy transfer, composition and structure of the Earth and its systems.
- Gain an awareness and appreciation of the physical and biological processes that shape the Earth's atmosphere, hydrosphere, geosphere and biosphere.
- Examine and describe environmental hazards and how they affect global systems.
- Examine traditional and alternate energy sources.
- Define and explain the basic issues concerning the ability of the human community to interact in a sustainable way with the environment.

### Text:

Environmental Science, 10<sup>th</sup> Edition by Cunningham, McGraw Hill

### 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.