COURSE SYLLABUS

Fall 2022 **LAST REVIEW Environmental Science COURSE TITLE COURSE NUMBER BIOI-0131** DIVISION Math, Science, Business & Technology **DEPARTMENT** Biology **CIP CODE** 24.0101 **CREDIT HOURS** 3 **CONTACT HOURS/WEEK** Class: 3 **PREREQUISITES** None **COURSE PLACEMENT** None **COURSE DESCRIPTION**

Environmental Science is the study of the interrelationship of humans with the environment. Students will learn the basic rules that govern the natural world, the products and services provided by the environment and the effects humans have on their environment. The guiding principle for this course is sustainability which advocates environmental stewardship while promoting economic prosperity and social justice.

KANSAS SYSTEMWIDE TRANSFER: BIO 1041

The learning outcomes and competencies detailed in this course outline or syllabus meet or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Groups project for this course as approved by the Kansas Board of Regents.

General Education Learning Outcome Basic Skills for Communication Mathematics Humanities	;
Natural and Physical Sciences	
Social and Behavioral Sciences	
Institutional Learning Outcomes Communication	
Computation and Financial Literac	٧
Critical Reasoning	,
Technology and Information Litera	асу
Community and Civic Responsibili	ty
Personal and Interpersonal Skills	

TEXTBOOKS

http://kckccbookstore.com/

METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

- I. Understanding our environment
- II. Tools for building a better world
- III. Matter, energy and life
- IV. Biological communities and species interactions
- V. Biomes, landscapes, restoration and management
- VI. Population dynamics
- VII. Environmental health and toxicity
- VIII. Food, hunger and nutrition
- IX. Soil resources and sustainable agriculture
- X. Pest control
- XI. Biodiversity
- XII. The earth and its crustal resources
- XIII. Air. climate and water
- XIV. Air pollution
- XV. Water use and management
- XVI. Water pollution
- XVII. Conventional energy
- XVIII. Sustainable energy
- XIX. Solid, toxic and hazardous waste
- XX. Urbanization and sustainable cities

COURSE LEARNING OUTCOMES

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

- A. Utilize scientific inquiry to make data-informed decisions.
- B. Explain physical and biological processes that shape the earth.
- C. Evaluate interconnections between organisms and the environment.
- D. Examine human interactions and impacts on the environment and natural resources.
- E. Discuss policies, ethics, and economics in environmental decision making.
- F. Propose components of a sustainable future.

ASSESSMENT OF COURSE LEARNING OUTCOMES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook

https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf

College Catalog

https://www.kckcc.edu/academics/catalog/index.html

College Policies and Statements

https://www.kckcc.edu/about/policies-statements/index.html

Accessibility and Accommodations

https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html.