

MONTGOMERY COUNTY COMMUNITY COLLEGE
 BIO 115H
 Environmental Biology, Honors
 3-3-0

CATALOG DESCRIPTION

This course is designed to explore three aspects of the environment: the interacting components of the environment apart from humans, the impact of humans and contemporary cultures on the environment, and local pollution problems and possible solutions.

This Honors course fosters high-achieving students' growth towards learning outcomes such as: problem solving, often with creative approaches; critical reading or original data analysis; forming judgments based on evidence, often from integrative learning; clear, persuasive research writing; oral presentation; and articulate reflection on personal growth. Honors courses are more likely to utilize student-driven active learning, emphasizing exploration and discovery, rather than the acquisition of specific knowledge; faculty might provide projects with no pre-determined conclusion, but with real-world application.

REQUISITES

Previous Course Requirements

None

Concurrent Course Requirements

None

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Describe energy flow, nutrient cycling and the population dynamics of ecosystems.	Lectures Class Discussions Field Trips Presentations Written Exams Research Papers Case Studies	Quizzes Tests
2. Examine current environmental problems in relation to the way the world naturally works and act accordingly.	Lectures Class Discussions Field Trips Presentations Written Exams Research Papers Case Studies	Quizzes Tests Research Papers Class Discussion

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
3. Describe the complexity of environmental issues and the information necessary to alleviate or mitigate the problems.	Lectures Class Discussions Field Trips Presentations Written Exams Research Papers Case Studies	Quizzes Tests Research Papers Class Discussion

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

SEQUENCE OF TOPICS

1. Analysis of ecosystems by examining the flow of energy, the biogeochemical cycles, the principles of population growth
2. Energy flow in human cultures, the pathway of various nutrients and the growth of human population.
3. Natural world functions a detailed examination of local environmental problems.

LEARNING MATERIALS

Current periodicals pertaining to environmental issues; government documents from the national, regional, state and local environmental agencies; appropriate pamphlets and books as well as other appropriate resources will be used.

COURSE APPROVAL:

Prepared by: Dr. Richard J. Andren Date: 6/1/1998

VPAA/Provost Compliance Verification: Dr. Bradley Gottfried Date: 1998

Revised by: Jerry Coleman Date: 3/2013

VPAA/Provost or designee Compliance Verification:
Victoria L. Bastecki-Perez, Ed.D. Date: 6/10/2013

Revised by: Debbie Dalrymple Date: 6/27/2016

VPAA/Provost or designee Compliance Verification:
Victoria L. Bastecki-Perez, Ed.D. Date: 6/27/2016

Revised by: Samuel Clay Wallace Date: 4/6/2017

VPAA/Provost or designee Compliance Verification:
Victoria L. Bastecki-Perez, Ed.D. Date: 4/14/2017

Revised by: Debbie Dalrymple Date: 12/17/2017

VPAA/Provost or designee Compliance Verification: Date: 12/18/2017

A handwritten signature in cursive script, appearing to read "W. Sub-few".

This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.