

ENVS 102

Introduction to Environmental Science Lab

1 Credit (3 hours lab)

Community College of Baltimore County
Common Course Outline

Description

ENVS 102 – Introduction to Environmental Science Lab: provides students with hands-on laboratory experiences, field trips, and special assignments to demonstrate the principles, processes, techniques, and technologies of the study of natural environmental systems and solutions to environmental challenges. In person labs may require students to attend off-campus or field activities during the scheduled laboratory period.

Pre-requisites: ACLT 052 or ACLT 053 or (ESOL 052 and ESOL 054) and MATH 082

Co-requisites: ENGL 101 and concurrent enrollment in or successful completion, with a C or better, of ENVS 101: Introduction to Environmental Science.

Overall Course Objectives

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

1. demonstrate how natural systems operate and interrelate with one another;
2. critically evaluate how human activities affect natural systems;
3. apply the scientific method in experimental design and analysis as related to environmental science;
4. use appropriate technology to investigate environmental issues;
5. present environmental information using effective written and/or oral communications;
6. critically assess environmental information and data sources;
7. explain how environmental problems relate to diverse local and global populations;
8. find, evaluate, use, and cite academic resources pertaining to environmental science;
9. interpret data numerically and graphically;
10. apply mathematical methods to the interpretation of environmental data; and
11. assess the effect of individual behavior on environmental issues.

Major Topics

- I. Measurements
- II. Scientific method
- III. Atmospheric processes
- IV. Biosphere
 - a. Ecology
 - b. Biodiversity
- V. Hydrosphere
- VI. Lithosphere
- VII. Environmental change and impacts
- VIII. Environmental technology

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- 10 written assessments such as laboratory reports, assignments, or exams
- 5 quizzes
- 1 group or collaborative project
- Students must attend and actively participate in the lab in order to receive credit for the activity. There are no make-up labs for this course, however, alternative assignments may be offered at the discretion of the instructor.

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

Other Course Information

This course is an approved 1 credit General Education course in the Biological and Physical Sciences and fulfills the laboratory requirement.

In person labs may require personal transportation, carpooling, or campus vehicles to visit off campus sites.

Successful completion of this course and the companion lecture course, ENVS 101 Introduction to Environmental Science, fulfills the laboratory requirement and equals 4 credits. Please refer to the current CCBC Catalog for General Education course criteria and outcomes.

Date Revised: 1/4/2022

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