

ENV 140 - WATERSHED SCIENCE

Course Description

This course is designed for the learner who wishes to gain an in-depth understanding of watersheds. It will focus on the physical and biological systems that are responsible for the quality and characteristics of a watershed. Human interactions, stewardship, management and impacts on our local water resources will also be explored. The laboratory portion of the course will place emphasis on field investigations and the analysis of data and water samples collected. Basic scientific principles will be incorporated throughout the course. Group 1 lab course.

Credit Hours

4

Contact Hours

5

Lecture Hours

3

Required Prerequisites

MTH 100 or equivalent

Corequisites

ENV 140L

Recommended Prerequisites or Skills Competencies

ENG 111; MTH 111, MTH 120 or MTH 131

General Education Outcomes supported by this course

Quantitative Reasoning

Course Learning Outcomes

Knowledge:

- Describe the characteristics of a watershed.

Application:

- Describe how activities throughout a watershed can affect water quality.

Integration:

- Apply the course content to real world applications.
- Describe the biological, chemical, physical and social aspects of watershed science.
- Use math skills to comprehend course content emphasizing quantitative reasoning.

Human Dimension:

- Describe their relationship with the natural world, with an emphasis on watersheds and water resources.
- Describe the social impact of decisions regarding water resources within their community.
- Demonstrate essential team skills.

Caring - Civic Learning:

- Learn to care more deeply about the use of water resources; locally and globally.
- Describe how science can be used in conjunction with other disciplines to help make wise and informed stewardship decisions.

Learning How to Learn:

- Research independently to make informed decisions.