

# WSI 105 - INTRO TO FRESHWATER STUDIES

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## Course Description

This course is designed to provide an exploration to the field of water studies, with specific focus on freshwater. Students will discuss the impact of water related challenges and opportunities in the context of the great lakes of the world. Focus will be given to the new and emerging career and educational pathways associated with water resources and their management. In addition to regular class lectures, invited experts from business, education and community organizations will introduce relevant topics of local and global significance including policy, law, sustainable development, history, engineering, health, and commerce. Group 2 course.

## Credit Hours

3

## Contact Hours

3

## Lecture Hours

3

## Recommended Prerequisites or Skills Competencies

MTH 23, ENG 111 - may be taken concurrently.

## General Education Outcomes supported by this course

Communications - Direct

## Other college designations supported by this course

Degree Req:Cultural Persp/Div, Infused: Writing Intensive

## Course Learning Outcomes

### Knowledge:

- Define water-related terminology.
- Identify water-related educational organizations in the Grand Traverse area.
- Explore career pathways in water-related fields.
- List current water-related issues of relevance in the Great Lakes.

### Application:

- Explain the significance of water-related issues of the Great Lakes.
- Compare and contrast the use of water resources around the world.
- Assess potential causes of water issues.
- Develop fundamental competencies to prepare for the job market in a water-related field.

### Integration:

- Analyze a globally significant water management issue to formulate potential solutions.
- Debate an ethical stance to a controversial water-related issue based on scientific data.

- Explain how water management decisions are informed by policy, economy and societal needs.

### Human Dimension:

- Work collaboratively to research a relevant water issue.
- Explore future career pathways and internship opportunities; locally and overseas.
- Appreciate multiple perspectives on water-related issues and solutions.

### Caring - Civic Learning:

- Differentiate the role of different stakeholders; education, government, and advocacy organizations, in sustainable water management.
- Evaluate the decision-making process of key stakeholders.
- Recognize the importance of social and civic engagement in issues concerning water management in the Great Lakes.

### Learning How to Learn:

- Create reasoned conclusions about the relevance of a global water-issue and proposed solutions.
- Establish a connection with organizations pertaining to water management in the Great Lakes.
- Advance knowledge, skills, dispositions and engagement in activities pertaining water management.