



## Course Outline

**Course Title:** Environmental Monitoring: Building a Plan for Shellfish Aquaculture

**Course Code:** AQUA 567T

**Total Hours:** 28 (lecture)

**Description:** This program focuses on developing the ability to recognize and record changes in the environment. Techniques are presented to document changes that occurred while intending to increase the productivity of the tenure - both planned and unplanned; changes confined within the tenure; and changes that affect the wider ecosystem.

**Course Objectives:**

The student will be able to:

- Understand ecological concepts;
- Understand various types of environmental monitoring and the uses of each type;
- Understand the techniques that are the foundation of many types of surveys;
- Apply the survey techniques, habitat identification and site mapping skills to a particular environment;
- Use field guides and identification keys;
- Conduct a survey to determine intertidal species diversity and abundance; and
- Maintain accurate records to compare environmental changes over time.

**Course Modules:**

Module 1: Introduction

Module 2: Benefits of a Monitoring Program

Module 3: Developing a Monitoring Program

Module 4: Survey Design

Module 5: Mapping the Survey Area

Module 6: Field Protocol

**Prerequisites:** None

**Evaluation:** Students will be evaluated through a combination of attendance, completion of classroom, lab exercises, field exercises, and assigned reading and written examinations