

Course Outline

Course Title: Introduction to Shellfish Culture Concepts

Course Code: AQUA 552T

Total Hours: 35 Hours

Description: Introduction to Shellfish Culture Concepts is a specialized training program consisting of classroom lectures, field exercises and tours of aquaculture sites. This course will provide foundational knowledge to individuals interested in learning about basic shellfish biology, habitat, growing techniques, husbandry, and business models. This course also touches on the regulatory environment that exists in Canada with respect to aquaculture, as well as food safety and best farm management practices.

Student learning will be realized through interactive exercises, discussions and observations in both the field and classroom.

Course Objectives:

The student will develop foundational knowledge and skills in:

- Planning aquaculture business projects;
- The biological and ecological principles of shellfish aquaculture;
- Shellfish culture methods and techniques;
- The principles of site selection;
- The regulations governing shellfish tenure applications;
- The role and importance of food safety principles in shellfish culture.
- How to apply best farm management practices
- Federal and provincial regulations as they apply to shellfish aquaculture
- The importance of food safety and water quality
- Market trends (global, national and regional)

Course Modules:

Module 1: The Marine Environment

Module 2: Shellfish Species Biology and Anatomy

Module 3: Introduction to Shellfish Culture Systems

Module 4: Shellfish Husbandry and Harvesting

Module 5: Site Selection and Production Potential

Module 6: Shellfish Food Safety and Water Quality



Module 7: Business Planning

Module 8: Shellfish Aquaculture Industry Overview

Module 9: Environmental Management

Prerequisites: None.

Evaluation: Attendance; classroom, lab and field exercises, and written and practical examinations.

Required Skills: English, Math, Computer