

## Course Outline

**Course Title:** Shellfish Growout Systems

**Course Code:** AQUA 553T

**Total Hours:** 32 hours

**Description:** An introduction to bivalve production from the nursery through to harvest for market. Topics include: primary shellfish growout systems used in BC; how culture site factors interact with systems affecting growth and product quality; inventory and production records; market and industry factors; shellfish health; and environmental management of shellfish farms.

**Course Objectives:**

The student will be able to:

- Demonstrate competence in working with the major shellfish growout systems in BC;
- Apply market and industry knowledge to farm practices and products;
- Identify important culture site parameters and their impact on the performance of shellfish in various culture systems;
- Conduct inventory and maintain appropriate farm production records;
- Identify deviations from optimal animal health and performance;
- Understand and follow appropriate environmental management practices on the farm.

**Course Modules:**

- Module 1. Introduction
- Module 2. Market Context for Shellfish Production
- Module 3. Intertidal Growout Systems
- Module 4: Deepwater Growout Systems
- Module 5. Growout Site Selection and Evaluation
- Module 6. Farm Development & Production Planning
- Module 7. Growout Site Management
- Module 8. Environmental Interactions

**Prerequisites:** None.

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