



## Course Outline

**Course Title:** Clam Beach Survey Techniques for Growers

**Course Code:** AQUA 561T

**Total Hours:** 24 (lecture)

**Description:** Clam Beach Survey Techniques For Growers includes classroom lectures and discussions, field beach work, and computer data analysis. The focus of the course is to determine the standing stock of a cultivated clam beach. Topics include the principles of data management, probability sampling, biomass and abundance determination, beach characteristics, and using survey techniques as a harvest management tool.

**Course Objectives:**

The student will be able to:

- Determine the standing shellfish stock of a cultivated beach;
- Understand basic probability statistics and the principles of random sampling;
- Develop site specific survey methodologies; and
- Develop ongoing management tools for determining future harvest goals.

**Course Modules:**

Module 1: Clam Beach Survey  
Module 2: Survey Design  
Module 3: Clam Species  
Module 4: Statistical Sampling Theory  
Module 5: Sampling  
Module 7: Laboratory Methods  
Module 8: Data Management  
Module 9: Analysis of Data

**Prerequisites:** None. It is recommended that participants have knowledge of field skills, basic mathematics and basic computer skills to support success in the program.

**Evaluation:** Attendance, exercises/assignments, written and practical examinations.