

## Aquatic Animal Health (\$450 Registration Fee)

**Online Section:** Online course content will be available Jan 18th to be completed prior to lab section

**Laboratory Section Date and Time:** March 14 - 18; 10:00 am – 4:30 pm

**Location:** UMaine Extension Diagnostic & Research Laboratory, 17 Godfrey Drive, Orono 04473

**Coordinators:** Dr. Debbie Bouchard (deborah.bouchard@maine.edu) and Dr. M. Scarlett Tudor (mary.tudor@maine.edu)



**Course Description:** This course is comprised of online lectures and assessments (Jan 18th - March 13) followed by a week-long immersive laboratory section (March 14-18). Throughout this course students will learn the basics of aquatic animal health and diagnostic tools for a diverse group of organisms (i.e. finfish and shellfish) important to Maine's aquaculture industry. Students will also gain hands-on experience with a wide range of diagnostic techniques and regulatory practices in the context of aquatic animal production.

\*Completion of this course counts towards earning UMaine Level 2 Aquaculture Micro-Credential

### Course Objectives:

1. To gain a foundation in the basics of aquatic animal health and diagnostics in organisms important to Maine's aquaculture industry (e.g. finfish and shellfish).
2. To gain hands-on experience with diagnostic tools and a basic understanding of the diversity of pathogens/diseases of importance to Maine's aquaculture industry.
3. To gain knowledge of the importance of water quality parameters and aquatic system design on aquatic animal health and best biosecurity practices
4. To gain hands-on experience with biosecurity practices in a wide range of contexts seen in Maine's aquaculture industry.

### Course Overview:

**Day 1:** Overview of aquatic animal health and the disease triad, as well as, finfish and shellfish diagnostic practices.

**Day 2:** Disease management – biosecurity and best management practices and mitigation of aquatic animal disease (i.e. vaccination, probiotics, selective breeding, and genetic engineering).

**Day 3:** Importance of water quality and system design in aquatic animal health.

**Day 4:** Aquatic animal assessments, diagnostic tools, health policy and guidelines.

**Day 5:** Field trip to an aquaculture facility for biosecurity review in operation and tour of health laboratory.

If you need a reasonable accommodation to participate in this program, please contact Scarlett Tudor at [mary.tudor@maine.edu](mailto:mary.tudor@maine.edu) or 207.581.4397 to discuss your needs.