Aquatic Animal Husbandry ($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 – 4:00 pm*

Location: *UMaine Extension Diagnostic & Research Laboratory (DRL), 17 Godfrey Drive, Orono 04473* **Coordinator:** *Dr. M. Scarlett Tudor mary.tudor@maine.edu*
Additional Instructors: Melissa Malmstedt (CCAR); Bobby Harrington (DRL)

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 husbandry needs and systems requirements of a diverse group of organisms (i.e. finfish, shellfish, and lobsters) important to Maine's aquaculture industry. Students will also gain hands-on experience with a wide range of equipment, systems, and daily care used to culture these organisms for the seafood industry as well as research applications.
* Completion of this course meets the criteria to earn UMaine Level 1 Aquaculture Micro-Credential

Course Objectives:

1. To gain a good foundation in the basic biology and husbandry needs of organisms important to Maine's aquaculture industry (e.g. salmon, trout, eels, oysters, mussels, scallops and lobsters).
2. To gain a basic understanding of the diversity of recirculating systems used to culture these organisms and basics of system operation.
3. To gain understanding of the importance of water quality parameters and quantification of these parameters in recirculating systems.
4. To gain hands-on experience with daily aquatic animal husbandry and the equipment used.

Course Overview:

- Introduction to Maine's aquaculture industry and aquatic animal husbandry, biology of relevant aquatic species, and water quality basics and equipment.

- Recirculating aquaculture systems (RAS) applications in Maine's aquaculture industry, RAS system basics, and system component effects of water quality parameters.

- Husbandry across life stages, basics of aquatic animal health, aquatic animal behavior and ethics of working with aquatic animals.

- Culturing live foods, aquatic animal nutrition, and feeding procedures.

- Field trips to Center for Cooperative Aquaculture Research (CCAR, Franklin ME) to learn basics of tagging, handling aquatic animals and gain exposure to industry sized systems.

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