

# Aquaculture Online at Brunswick Community College

## Online Continuing Education Program

No state residency requirement, open to everyone. These are non-credit courses designed for farmers, entrepreneurs, investors, and others interested in learning about aquaculture but who do not wish to pursue a degree.

**Please contact Lori Summerlin to register: [summerlinl@brunswickcc.edu](mailto:summerlinl@brunswickcc.edu) or 800.754.1050.**

## **Continuing Education Courses Available Online**

- Aquaculture
- Advanced Aquaculture Part 1
- Advanced Aquaculture Part II

Note: Summer Session Courses (May through July) are structured over an 8-week period, which requires 8 hours per week, versus 4 hours per week in a standard fall/spring semester period.

## Course Title: Aquaculture

### Course Dates:

*Fall:* August 19, 2013 through December 9, 2013 (Revised start date September 3<sup>rd</sup>)

### Course Cost: \$180

Course Description: This online course is a comprehensive introduction to commercial Aquaculture, or the farming and husbandry of aquatic organisms, including fish, mollusks, and crustaceans. The course will include the fundamentals of fish and shellfish culture, including discussions of the various types of culture systems used (ponds, raceways, recirculating systems, etc.), water quality management, nutrition and feeds, diseases, genetics and breeding, harvesting and transport, economics and business, sustainability, and regulatory issues. Culture techniques for species of commercial importance are incorporated into the course, including channel catfish, African catfish (*Clarius*), tilapia, trout, hybrid striped bass, yellow perch, marine shrimp, freshwater shrimp, oysters, clams, blue mussels, algae for shellfish, and other species. The course is structured in 16 weekly modules requiring approximately 4 hours each.

The course is self-paced, and may be accessed any time 24 hours a day, 7 days a week. The instructor is available any time via questions posted on the course wiki or by email.

## Course Title: **Advanced Aquaculture Part 1**

Note: May be taken simultaneously with the Aquaculture course listed above.

Course Dates:

*Fall:* August 19, 2013 - December 9, 20132013 (Revised start date September 3<sup>rd</sup>)

Course Cost: \$180

Co-requisite/Prerequisite: Aquaculture (or comparable introductory aquaculture course)

Course Description: This online course is an advanced course designed for persons seeking greater in-depth knowledge about subjects such as aquaculture facilities design and construction, fish genetics & breeding, diseases and parasites of fish and shellfish, and the management of fish hatcheries. The course is designed to follow our continuing education course called "Aquaculture", but is open to anybody with a good introductory background in aquaculture. It may also be taken simultaneously with "Aquaculture". The course is set up in 16 weekly modules, requiring approximately 4 hours each.

The course is self-paced, and may be accessed any time 24 hours a day, 7 days a week. The instructor is available any time via questions posted on the course wiki or by email.

## Course Title: **Advanced Aquaculture Part II**

Note: May be taken simultaneously with the Aquaculture course listed above.

Course Dates:

*Fall:* August 19, 2013 - December 9, 2013 2013(Revised start date September 3<sup>rd</sup>)

Course Cost: \$180

Co-requisite/Prerequisite: Aquaculture (or comparable introductory aquaculture course)

Course Description: Advanced Aquaculture, Part 2 provides advanced information designed for persons seeking greater and more in-depth knowledge about particular topics in aquaculture, including 1) advanced water chemistry, aquatic ecology, and environmental requirements for aquaculture 2) water discharge and effluent management 3) pond dynamics, liming, fertilization, and aeration, 4) management of aquatic weeds, and 5) hatchery management. The course is designed to follow our continuing education course called "Introductory Aquaculture", but is open to anybody with a good introductory background in aquaculture. It may be taken in series starting with Intro to Aquaculture, then Advanced Aquaculture, Part 1, and finally Advanced Aquaculture, Part 2. Advanced Aquaculture,

Parts 1 and 2 may be taken simultaneously. Both of these courses may also be taken simultaneously with "Introductory Aquaculture". The course is set up in 16 weekly modules, requiring approximately 5 hours each week. The course is self-paced, and may be accessed any time 24 hours a day, 7 days a week. The instructor is available any time via questions posted on the course questions forum or by email.

The course is self-paced, and may be accessed any time 24 hours a day, 7 days a week. The instructor is available any time via questions posted on the course wiki or by email.

Instructor for Aquaculture and Advanced Aquaculture: Dr. Doug Holland

Dr. Holland earned a Ph.D. from the Department of Fisheries & Allied Aquacultures at Auburn University. He owned and operated a private commercial fish farm in North Carolina for 10 years. He has been Director of the Center for Aquaculture and Biotechnology for 18 years, where he has taught hundreds of students in both curriculum and continuing education classes in aquaculture. He has experience in aquaculture on three continents (North America, South America, and Africa).

For more information, please see our departmental website at:

<http://www.brunswickcc.edu/professional-technical/aquaculture-technology>