

COURSE SYLLABUS

COURSE: AQU 240 FISH NUTRITION AND DISEASES

HOURS: Lecture: 3 Lab: 0 Shop/Clinical: 0 Credits: 3

COURSE DESCRIPTION:

This course introduces the principles of fish and shellfish nutrition and provides a background in the management of diseases and parasitic infestations. Topics include nutritional requirements of fish and shellfish, feed formulation, feeding practices, viral diseases, bacterial diseases, parasites, and medication and disease prevention. Upon completion, students should be able to discuss the principles of nutrition and identify and control microbial and parasitic diseases of fish and shellfish.

PREREQUISITE(S): BIO 111

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

None

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

1. Describe the nutritional requirements of the most important species of finfishes and crustaceans commercially cultured in North Carolina.
2. Discuss the environmental factors that influence the nutritional requirements of finfishes and shellfishes.
3. Locate lists of the basic ingredients that compose prepared feeds, including proteins, lipids and carbohydrates, as well as vitamins, minerals and non-nutritive factors in feeds.
4. Handle and store feeds and feed ingredients properly, and minimize the potential for toxic substances in feeds.
5. Describe feed formulation, evaluation, and feeding practices.
6. List the major etiological agents responsible for producing disease problems in finfishes and shellfishes.
7. Describe the clinical signs of important diseases and parasites of commercially cultured aquatic organisms, and methods for the diagnosis of disease problems.
8. Discuss accepted treatment methods for diseases and parasites, the uses of chemicals and restrictions on their uses.
9. Name and describe how one would effectively prevent fish diseases through minimization of stress.
10. Discuss immunization of fishes and vaccination methods.

SYLLABUS INFORMATION:

The Student Learning Outcomes listed in this syllabus are those required actions that a student who successfully completes the course must be able to perform. The educational experience, however, is a two-way, interactive process involving both the student and the instructor. The student must play an active role in the learning process in order to be successful. Instructors will provide an Instructor's Syllabus at the first class meeting explaining how they measure each of the Student Learning Outcomes. A student who is unable to accomplish the outcomes will not receive a passing grade in the course.

The information in this BCC Syllabus may not be accurate beyond the current semester. Textbooks and other course materials are subject to change. Students should verify the textbooks at the first class meeting with their instructor prior to purchasing.

GRADING SYSTEM:

Brunswick Community College employs a system of letter grades and corresponding quality points per grade to evaluate a student's performance in meeting the stated goals and objectives for each course. The grading system is published in the BCC Catalog and Student Handbook.

ATTENDANCE POLICY:

Each student has individual responsibility for attending class regularly and for meeting course objectives. A student is expected to attend all class meetings in a course. Rules on tardiness and leaving class early are addressed in each instructor's syllabus. Instructors are required to record absences and report excessive absenteeism to the Registrar.

If a student is absent for any reason in excess of 20 percent of the class hours, he or she is in violation of the Brunswick Community College attendance policy. Unless the student officially withdraws from the course prior to the 65 percent point of the 16 week semester (or equivalent days for courses of other duration), he or she may receive a grade of "F."

Students who receive an "EXCESSIVE ABSENTEEISM NOTICE" are advised to contact their instructors immediately to review the conditions for withdrawing from the course or for continuing the course.

STUDENTS WITH DISABILITIES:

Brunswick Community College complies with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act, which require that no qualified student with a disability be excluded from participation in or be denied the benefits of any services, programs or activities on the basis of his or her disability. If a student has a disability that is covered by the Americans with Disabilities Act and requires accommodations in the classroom and/or in extracurricular activities, the student must request the accommodations in

writing and submit the request to the Disability Services Coordinator. Instructors will not provide accommodations without notification from the Disability Services Coordinator. Brunswick Community College will make every effort to provide reasonable accommodations.