BRUNSWICK COMMUNITY COLLEGE

PO Box 30, 50 College Road NE
Supply, North Carolina 28462
(910) 755-7300
www.brunswickcc.edu

COURSE SYLLABUS

COURSE: AQU 220 AQUACULTURE FACILITIES

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

COURSE DESCRIPTION:

This course covers the design of facilities used in the production of fish and shellfish. Topics include pond construction, open-channel and pipe flows, motors and pumps, water wells, cage and raft construction, and flow-through and recirculating system design. Upon completion, students should be able to design a variety of aquaculture production systems.

PREREQUISITE(S): DRE 098 or ENG 095 and MAT 070 or DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050

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. Conduct a pond site analysis and soil texture determination.
2. Prepare a topographic map of a proposed pond site.
3. Design and supervise the construction of earthen ponds.
4. Use pond design computer software packages.
5. Design and construct open-channel drainage and water control structures.
6. Design and construct pipe systems for delivery of water in hatcheries and other intensive fish production facilities.
7. Discuss the basic principles of water flow measurement.
8. Select, install, operate and maintain a variety of types and sizes of water pumps.
9. Describe aquifers, water wells and well construction.

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.