

Course Prefix/Number/Title: **HORT 122 Aquaponics Production**

Number of credits: 1

Course Description: Course is a study of aquaponics and production methods. Course materials will look at methods used in aquaponics production, variables, species characteristics of fish and plants, and integrated pest management techniques (IPM).

Pre-/Co-requisites: HORT 141 – Introduction to Aquaponics

Course Objectives:

- Demonstrate understanding of aquaponics production methods.
- Explain the proper steps used when changing variables within the aquaponics operation.
- Describe environmental characteristics of different plant and fish species.
- Display proficiency in daily operations pertaining to the fish and plant production.

Instructor: Keith Knudson

Office: 105 Simrall Blvd.; Bottineau, North Dakota 58318

Office Hours: TBD

Phone: 701-228-5489

Email: keith.knudson@dakotacollege.edu

Lecture/Lab Schedule: Modular --Time and Date TBD.

Textbook(s): This is an Open Education Resource class. Textbook is not required. But recommended resource is [Aquaponics Food Production](#) ISBN 978-0-9779696-1-6, 218 pages, 37 color photos and diagrams, 14 grayscale photos and diagrams, soft cover, released July, 2008. SKU Number: AFPB

Course Requirements: Prerequisite –This is a pass/fail course. The minimum passing score is 70%.

Tentative Course Outline:

- Feeding fish
- Water Quality
- Plant Nutrition
- Lighting (Supplemental)
- Pest and Diseases

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s): Attain level of technical skills and practices used in Horticulture Industry in preparation for workplace readiness.

Classroom Policies:

Be respectful of other students, instructors and guests.

Student Email Policy:

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

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Academic Integrity:

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

Disabilities or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

Title IX:

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or

sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.