



Course Prefix/Number/Title: HORT 222 Aquaponics Management II

Number of credits: 3

Course Description: Course gives students the necessary business and financial tools to start, maintain, and expand an aquaponics business. The course will include instructions on writing a business plan, business setting, recordkeeping and accounting, business analysis, budgets, and financial needs planning.

Pre-/Co-requisites: HORT 221 Aquaponics Management I

Course Objectives:

- Create a business plan that includes clear and concise description of the following elements.
 - Executive Summary
 - Company Description
 - Product and Services
 - Actual Market Analysis
 - Strategy and Implementation
 - Management and Organization
 - Financial Plan and Projections
- Describe business goals and understand the need to make goals, reviews, and adjustments.
- Participate in the aquaponics recordkeeping system established for this program that includes data entry, validation, and accuracy.
- Develop a production program based on markets, best practices, efficiencies, profitability, and seasonal options.
- Participate in planning of future growth, production needs, schedules, and financial planning
- Develop Supervisory Skills

Instructor: Keith Knudson

Office: Molberg Center, Rm 26; 105 Simrall Blvd., Bottineau, ND 58318;

Office Hours: By appointment

Phone: 701-228-5489

Email: keith.knudson@dakotacollege.edu

Lecture Schedule: Tu/Th 1:00 PM to 2:20 PM

Textbook(s): None required

Course Requirements: Grading will be based on the following to obtain points. There will be 3 lecture quizzes each worth 40 points; 2 individual student led discussions each worth 80 points; final exam worth

100 and a business plan worth 200 points. Total possible points for the course are 580. The final grade is based on the following criteria:

- A = 89.5% to 100% points between 519 and 580
- B = 79.5% to < 89.5% points between 461 and 518
- C = 68.5% to < 79.5% points between 397 and 460
- D = 59.6% to < 69.5% points between 403 and 396
- F = < 59.5% points less than 403

Tentative Course Outline:

- Write a complete Business Plan
- Develop a plan to review business plan and yearly operations to assure business success
- Record data as necessary and monitor data entry of students in the first and secondary years to assure accuracy and relevance.
- Assist in maintaining financial records of DCB aquaponics.
- Manage schedules based on consumer demand and seasonal expenses.
- Demonstrate customer service activities for retail and wholesale
- Research new aquaponics methods and recommend changes to current system
- Conference – attend at least one horticulture related conference. (examples are but not limited to: MOSES, NPSAS, NDGNLA, ND Local Foods). If unable to attend the instructor will assign a project.

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s):

Relationship to Campus Theme: This course is part of our Aquaponics Production and Management program and it addresses the campus theme of Nature, Technology and Beyond by learning about our natural resources and how best to utilize each resource. The latest technology is discussed and demonstrated.

Classroom Policies:

1. Cell phones, iPods and related technologies use are prohibited in the classroom unless otherwise instructed.
2. Food and beverages are permitted in accordance with IVN classroom policy.
3. Be respectful of other students, instructor 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.

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.