

Course Prefix/Number/Title: HORT 286 - Vegetable Prod. Practicum II

Number of credits: 3 Semester Credit

Course Description: This field of study is designed to help an individual develop skills to produce vegetables using environmentally safe methods. Experience hands on learning including sustainable production methods of vegetables, composting, good agricultural practices, safe postharvest handling, marketing and pest management. Emphasis on activities related to the spring season.

Objectives:

1. To understand and demonstrate the basic principles of sustainable vegetable farming.
2. Evaluate crop management techniques for sustainability.
3. Demonstrate the ability to develop a multiple crop rotation plan.
4. Demonstrate the ability to prepare soils and using garden-scale sustainable tillage techniques.
5. To use various seeding techniques and to learn how to safely handle seedling and transplants for transportation and planting.
6. To understand the basic irrigation concepts and develop irrigation schedules.
7. Exercise safe worker procedures.

Pre-/Co-requisites: None

Instructor: Keith Knudson/Mike Baier

Office: 519 Main Street, Suite 5; Bottineau, ND 58318; Bottineau Tech. Center

Office Hours: 11 AM to 4:5 PM – MWF or by appointment

Phone: 701-228-2160

Email: Keith.Knudson@dakotacollege.edu

Lecture/Lab Schedule: TBD (Schedule flexible to work with students class schedule – 6 hours per week is planned)

Textbook(s): Sustainable Vegetable Production from Start-Up to Market, NRAES-104; ISBN: 978-0-935817-45-4 (this textbook is reference only)

Course Requirements: Grading will be based on the following to obtain points. There will be 5 lecture quizzes each worth 30 points; farm plan is worth 200 points and a final exam worth 150 points. Total possible points for the course are 550. The final grade is based on the following criteria:

- A = 89.5% to 100% of the total points
- B = 79.5% to < 89.5% of the total points
- C = 68.5% to < 79.5% of the total points
- D = 59.6% to < 69.5% of the total points
- F = < 59.5% of the total points

Tentative Course Outline: This practicum will touch on a lot of everyday activities required to run a sustainable vegetable production system. Daily activities include:

- Create a planning schedule
- Garden layout design
- Ordering seeds and transplants
- Seeding and Transplanting
- Mulching and weeding
- Monitoring soil and ambient temperatures
- Harvesting - Greens
- Preparing produce for market
- Practicing safety procedures
- Soil and tissue sampling
- Field Trip

General Education Goals

Not Applicable

Relationship to Campus Theme:

This course is part of our Sustainable Vegetable Production 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. Methods of sustainable vegetable production using the latest methods and technology are practiced.

Practicum Area Policies:

1. Cell phones, iPods and related technology are prohibited at all times. It is recommended that you do not bring your cell phone into the practicum area or, at the very least, turn it off.
2. Food and beverages are permitted in accordance with IVN classroom policy.
3. Be respectful of other students, instructors and guests.

Academic Integrity:

All students are expected to adhere to the highest standards of academic integrity. Dishonesty in the classroom or laboratory and with assignments, quizzes and exams is a serious offense and is subject to disciplinary action by the instructor and college administration. For more information, refer to the student handbook.

Disabilities and Special Needs:

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact your instructor and Jan Nahinurk in the Learning Center (701-228-5479) as early as possible during the beginning of the semester.