

## **Dakota College @ Bottineau Course Syllabus**

### **Course Prefix/Number/Title:**

Hort. 172 Horticulture Food Crops  
2 credits Spring Semester

### **Course Description:**

Production and physiological principles involved in growing vegetable and fruit crops will be discussed. Emphasis will be placed on plants suitable for market gardening and farmer's markets.

### **Course Objectives:**

To understand general principles of vegetable and fruit production  
To know specific facts about vegetable and fruit production  
Perform practices such as propagation of vegetable and small fruit crops  
Growing greenhouse vegetables  
Identification of seeds, plants and fruit of common fruits and vegetables

### **Instructor:**

Diann Beckman

### **Office:**

Molberg 20

### **Office Hours:**

MWF 10:00 – 11:00 Other hours by appointment

### **Phone:**

701-228-5442

### **Email:**

diann.beckman@dakotacollege.edu

### **Lecture/Lab Schedule:**

Lecture M 1:00 – 2:00

Lab W 1:00 – 3:00

### **Textbook(s):**

All about Vegetables

Ortho Books

Territorial seed companies

Vegetable seed catalog (Order on-line) [www.territorial](http://www.territorialseeds.com) seeds.com

Recommended Text All about growing Fruits, Berries and Nuts

Ortho Books

**Course Requirements:**

Designing a layout for a home garden and a small commercial garden

Select fruits or vegetables to be grown to support a family of 4 and select crops to be grown on a small commercial scale.

Tests will be given covering;

1. Jeff Ball Garden Planning tapes,
2. Vegetable cultural information and seed ID,
3. Small fruit production

Grading;

100-90% = A, 90-80% = B, 80-70% = C, 70-60% = D, Below 60% = F

**Tentative Course Outline:****Week One**

Chapter one-All about vegetables "Ways to garden smarter"

Lab; Video How to design and build a vegetable garden

**Week Two**

Chapter two and three "Making a garden and Gardening with the seasons"

Lab; Video How to grow cool weather vegetables

Starting seed for greenhouse garden

**Week Three**

Video's – How to grow warm weather vegetables

A small commercial garden

Test Chapters 1-3 and video information

**Week Four**

Chapter four "Growing great vegetables"

Lab; conducting seed viability tests

**Week Five**

Vegetable ID and Cultural notes

Lab; Seed viability results & Vegetable ID

**Week Six**

Vegetable ID and Cultural notes

Transplanting Greenhouse vegetables & Vegetable ID

**Week Seven**

Vegetable ID and Cultural notes

Lab; Greenhouse garden maintenance

**Week Eight**

Vegetable ID and Cultural notes

Lab; growing sprouts at home

**Week Nine**

Vegetable ID

Lab; Greenhouse garden maintenance and sampling sprouts

**Week Ten**

Spring Break

**Week Eleven**

Vegetable ID

Test on Vegetable information and seed ID

**Week Twelve**

Growing Small Fruit in North Dakota

Cass County Extension bulletins

Lab;

Grape cuttings

**Week Thirteen**

Growing fruits Berries and nuts

Ortho book

Lab: Training small fruits

**Week Fourteen**

Pruning and training fruit trees

Univ. of Minn. extension bulletins

Lab; Pruning fruit trees

**Week fifteen**

Identification of fruit, berries and nuts

Lab; ID of small fruit

**Week Sixteen**

Identification of fruit, berries and nuts

Lab: ID of fruit and nut bearing trees

**Week Seventeen**

Final exam

Fruits berries and nuts

**Relationship to Campus Theme:**

With the green movement to protect the environment and in today's economy; throughout the world ,it is predicted that vast numbers of people will again grow a vegetable garden. Whether it is out of necessity or just to be guaranteed fresh and chemical free food, we need to understand ways to grow and market fresh produce.

**Classroom Policies:**

Read ahead so that we can have discussion in class

Please leave your cell phones off

Laptops are allowed to follow along with Plant Id photos

**Academic Integrity:**

Students are expected to perform their own work, any plagiarism or cheating will result in an automatic f for the project.

**Disabilities and Special Needs:**

Please inform me within the first week of class of any assistance that may be required because of a disability or special need.