Course Prefix/Number/Title:
Hort. 172 Horticulture Food Crops
Spring Semester 2014: 2 credits

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:
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Office Hours:
MWF 11-11:50 Other hours by appointment

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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 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. The new Buzz is to Buy Local/Buy Whole foods which should be a boon for the Farmers Markets.

Classroom Policies:
Read ahead so that we can have discussion in class
No Texting!!!!!!!!!!!!!!!!
Laptops are allowed to follow along with Plant Id photos
Academic Integrity:
Students are expected to perform their own work, any plagiarism of 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.