SUSAG 111 Course Outline as of Fall 2004

CATALOG INFORMATION

Dept and Nbr: SUSAG 111 Title: ORGANIC CROP PLANNING
Full Title: Organic Crop Planning
Last Reviewed: 2/14/2005

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	1.00	8	Lecture Scheduled	8.00
Minimum	1.00	Lab Scheduled	3.00	6	Lab Scheduled	24.00
		Contact DHR	0		Contact DHR	0
		Contact Total	4.00		Contact Total	32.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 16.00 Total Student Learning Hours: 48.00

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	04 - Different Topics
Also Listed As:	
Formerly:	AG 297.54S

Catalog Description:
Application of organic techniques of soil preparation and management involved in fall production of vegetable, fruit and flower crops in small commercial operations. Includes hands-on management of Shone Farm's Food Pyramid Garden.

Prerequisites/Corequisites:

Recommended Preparation:
Course Completion or Concurrent Enrollment in SUSAG 110 (or AG 121)

Limits on Enrollment:

Schedule of Classes Information:
Description: Application of organic techniques of soil preparation & management involved in fall production of vegetable, fruit & flower crops in small commercial operations. Hands-on management of Shone Farm's Food Pyramid Garden. (Grade Only)
Prerequisites/Corequisites:
Recommended: Course Completion or Concurrent Enrollment in SUSAG 110 (or AG 121)
Limits on Enrollment:

Transfer Credit:
Repeatability: Different Topics

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**	Effective:	Inactive:
CSU GE:	**Transfer Area**	Effective:	Inactive:
IGETC:	**Transfer Area**	Effective:	Inactive:

CSU Transfer:	Effective:	Inactive:
UC Transfer:	Effective:	Inactive:

CID:

Certificate/Major Applicable:
Both Certificate and Major Applicable

COURSE CONTENT

Outcomes and Objectives:
Upon completion of this course, the student will be able to:
1. Plan and manage a small commercial garden.
2. Test and analyze soil.
3. Determine appropriate type, amount and proper application of soil amendments.
4. Discuss the role of and methods for crop rotation.
5. Suggest appropriate cover crops for a given garden plot.
6. Plant a crop utilizing appropriate planning and planting methods.
7. Utilize methods and structures to extend the growing season.
8. Evaluate pest control needs and recommend appropriate pest management procedures.
9. Determine cost of production for various farm enterprises.
10. Compare and contrast the benefits of planting from seed or transplants.
11. Produce transplants for planting.

Topics and Scope:

I. Orientation to the Food Pyramid Garden (FPG)
 A. Background
 B. History of site
 C. Purpose
 D. Long-term vision
 E. Overview of Food Pyramid Garden components
  1. grains
  2. vegetables
  3. fruit
  4. protein
  5. dairy

6. sugars and oils

II. Fall Farm Management/Planning
A. Financial planning
1. budget
2. income/expense
3. record keeping
B. Community relations/outreach

III. Soil Fertility Management
A. Soil testing and analysis
1. soil pH
2. soil nutrients
3. percentage organic matter
B. Organic soil amendments
C. Cover crop planting
D. Crop rotation

IV. Fall Cultural Practices
A. Tillage
B. Integrated Pest Management (IPM)
1. pest pressures
2. pest management treatments
C. Irrigation
D. Fertilization
1. calculating material to meet crop nutrient needs
2. application methods
E. Cover crops

V. Fall Planting
A. Appropriate crops
B. Seeds
1. ordering the appropriate seeds
2. proper storage
C. Fall transplants
D. Care of fall seedlings/transplants
E. Bare root fruit trees
F. Growing Season Extension

VI. Planting Plans
A. Field layout
1. spacing
2. companion planting
3. Yield calculations
B. Planting intervals for continuous harvest

VII. Harvesting the Crop
A. When to harvest
B. How to harvest
C. Sequence of harvest
D. Harvest frequency
E. Post-harvest crop storage

Assignment:

Assignments may include:
1. Reading, 15 - 20 pages per week.
2. Plan a section of the Food Pyramid Garden (FPG), proposing appropriate

design features and a planting plan.
3. Create a production and marketing plan for a section of the FPG.
4. Develop a self-guided tour brochure for the FPG.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Tour brochure for FPG.	Writing 20 - 30%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Section plan for FPG; production & marketing plan.	Problem solving 40 - 50%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None	Skill Demonstrations 0 - 0%

Exams: All forms of formal testing, other than skill performance exams.

None	Exams 0 - 0%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation.	Other Category 20 - 30%

Representative Textbooks and Materials:
SUSTAINALBE VEGETABLE PRODUCTION FROM START-UP TO MARKET. Vernon P. Grubinger. Natural Resource, Agriculture, and Engineering Service (NRAES), 1999.
www.attra.ncat.org