#### SUSAG 112 Course Outline as of Fall 2005

## **CATALOG INFORMATION**

Dept and Nbr: SUSAG 112 Title: ORGANIC CROP PRODUCTION Full Title: Organic Crop Production Last Reviewed: 2/14/2005

Units		Course Hours per Week		Nbr of Weeks	<b>Course Hours Total</b>	
Maximum	2.00	Lecture Scheduled	4.00	9	Lecture Scheduled	36.00
Minimum	2.00	Lab Scheduled	2.00	8	Lab Scheduled	18.00
		Contact DHR	0		Contact DHR	0
		Contact Total	6.00		Contact Total	54.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 72.00

Total Student Learning Hours: 126.00

Title 5 Category:	AA Degree Applicable
Grading:	Grade or P/NP
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	AG 297.55S

#### **Catalog Description:**

Planting procedures, cultural requirements, harvesting techniques and marketing practices involved in the production of organic vegetable, fruit and grain 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: Planting procedures, cultural requirements, harvesting techniques and marketing practices involved in the production of organic vegetable, fruit and grain crops in small commercial operations. Includes hands-on management of Shone Farm's Food Pyramid Garden. (Grade or P/NP) Prerequisites/Corequisites: Recommended: Course Completion or Concurrent Enrollment in SUSAG 110 ( or AG 121)

# **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

AS Degree: CSU GE:	Area Transfer Area	Effective: Effective:	Inactive: Inactive:
<b>IGETC:</b>	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. Select appropriate crops for Sonoma County.
- 2. Evaluate various potting mixes for seed starting.
- 3. Compare and contrast the benefits of on-farm transplant production and purchase of commercially produced transplants.
- 4. Determine appropriate plant spacing and planting arrangements for optimal crop production.
- 5. Prepare a raised garden bed.
- 6. Collect and analyze representative soil samples.
- 7. Amend soil with organic fertilizers to meet crop nutrient needs and pH preferences.
- 8. Determine optimal harvest time for a given crop.
- 9. Discuss effective storage requirements to eliminate crop deterioration.
- 10. Evaluate marketing channels appropriate to Sonoma County.
- 11. Determine crop density based on square footage of space available.
- 12. Identify pest pressures and apply appropriate pest management treatments.

## **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. 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. 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 crop incorporation
- V. Planting
- A. Appropriate crops
- B. Seeds
  - 1. ordering the appropriate seeds
- 2. proper storage
- C. Transplants
- D. Care of seedlings/transplants
- VI. Planting Plans
- A. Field layout
  - 1. spacing
  - 2. companion planting
- 3. yield calculations
- B. Planting intervals for continuous harvest

## **Assignment:**

Assignments may include:

- 1. Prepare potting mix based on crop and soil needs.
- 2. Develop an advertising tool for the FPG.
- 3. Prepare a detailed plot plan for planting various sections of the FPG.
- 4. Prepare a plot for planting.
- 5. Assigned reading, 15 20 pages per week.

## 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.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments are more appropriate for this course.

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

Prepare potting mix; plot plan; advert. strategy.

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

None

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

None

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

Attendance and participation.

## **Representative Textbooks and Materials:**

Sustainable Vegetable Production from Start-up to Market. Vernon P. Grubinger. Natural Resource, Agriculture, and Engineering Service (NRAES), 1999.

Sustainable Horticulture Today and Tomorrow. Poincelot, Raymond. Prentice Hall, 2004.

Web based materials.

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sessment problem iis course.	Writing 0 - 0%
n exams, that on-	
	Problem solving 80 - 90%
sical cluding skill	
	Skill Demonstrations 0 - 0%
skill	
	Exams 0 - 0%
ot logically	
	Other Category 10 - 20%