

**SUSAG 65 Course Outline as of Spring 2022****CATALOG INFORMATION**

Dept and Nbr: SUSAG 65 Title: COOL SEASON VEG PROD

Full Title: Cool Season Vegetable Production

Last Reviewed: 2/8/2021

| Units   |      | Course Hours per Week |      | Nbr of Weeks | Course Hours Total |       |
|---------|------|-----------------------|------|--------------|--------------------|-------|
| Maximum | 2.00 | Lecture Scheduled     | 1.50 | 17.5         | Lecture Scheduled  | 26.25 |
| Minimum | 2.00 | Lab Scheduled         | 1.50 | 6            | Lab Scheduled      | 26.25 |
|         |      | Contact DHR           | 0    |              | Contact DHR        | 0     |
|         |      | Contact Total         | 3.00 |              | Contact Total      | 52.50 |
|         |      | Non-contact DHR       | 0    |              | Non-contact DHR    | 0     |

Total Out of Class Hours: 52.50

Total Student Learning Hours: 105.00

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:

**Catalog Description:**

Class focuses on characteristics and production of major cool season vegetable crops in Sonoma County. Topics include crop planning, organic production practices, soil management, season extension and cover cropping. Lab activities will include hands-on application of production techniques at SRJC's Shone Farm.

**Prerequisites/Corequisites:****Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates

**Limits on Enrollment:****Schedule of Classes Information:**

Description: Class focuses on characteristics and production of major cool season vegetable crops in Sonoma County. Topics include crop planning, organic production practices, soil management, season extension and cover cropping. Lab activities will include hands-on application of production techniques at SRJC's Shone Farm. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

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

|                      |                      |                        |                  |
|----------------------|----------------------|------------------------|------------------|
| <b>AS Degree:</b>    | <b>Area</b>          | <b>Effective:</b>      | <b>Inactive:</b> |
| <b>CSU GE:</b>       | <b>Transfer Area</b> | <b>Effective:</b>      | <b>Inactive:</b> |
| <b>IGETC:</b>        | <b>Transfer Area</b> | <b>Effective:</b>      | <b>Inactive:</b> |
| <b>CSU Transfer:</b> | Transferable         | Effective: Summer 2006 | Inactive:        |
| <b>UC Transfer:</b>  |                      | Effective:             | Inactive:        |

**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Select and cultivate varieties of cool season vegetables suitable for Sonoma County soils and microclimates.
2. Create appropriate planting layouts for cool season vegetables within the available planting space.
3. Plan and implement a schedule of cultural and cost-effective practices from soil preparation through harvest for a cool season crop.
4. Discuss and apply techniques and equipment for extending the growing season of cool season crops.

### **Objectives:**

At the conclusion of this course, the student should be able to:

1. Identify varieties of cool season vegetables suitable for Sonoma County soils and microclimates.
2. Describe soil preparation and fertility management methods for cool season vegetables.
3. Identify and evaluate planting layouts for cool season vegetables based on space and selected plants.
4. Determine optimal schedule and cultural practices for a cool season crop.
5. Identify and recommend control measures for common pests, diseases and weeds of warm season crops.
6. Determine appropriate cool season cover crops and apply techniques for successful cover crop establishment.

### **Topics and Scope:**

- I. Key Components of Cool Season Farming

- A. Cold hardy crop varieties
- B. Season extension techniques
- C. Succession planting
- D. Seasonal schedule
- E. Daylight hours
- II. Cool Season Vegetable Varieties Specifically Suited to Sonoma County Conditions and Markets
  - A. Asian greens
  - B. Brassicas
  - C. Lettuce
  - D. Spinach
  - E. Root crops
  - F. Specialty cool season crops
- III. Basics of Crop Planning for Cool Season Farming
  - A. Key variety information from seed catalogs
  - B. Days to maturity
  - C. Succession planting
- IV. Production
  - A. Seed planting in flats
  - B. Seeding directly in ground
  - C. Quantities and spacing of varieties for desired yields
  - D. Planting layouts
- V. Cultural Practices Through the Season
  - A. Soil and bed preparation
  - B. Thinning
  - C. Training/staking
  - D. Weed and insect control
  - E. Irrigation
  - F. Fertilization
- VI. Season Extension Techniques
  - A. Greenhouses
  - B. High tunnel hoop houses
  - C. Low tunnels
  - D. Floating row cover
- VII. Cool Season Soil Management
  - A. Fall and winter cover crops
  - B. Preparing garden areas for winter
- VIII. Harvest Methods and Storage
  - A. Harvest techniques by crop
  - B. Harvest timing by crop
  - C. Optimal storage conditions by crop
- IX. Marketing (Marketing strategies unique to cool season crops)

All topics are covered in the lecture and lab portions of the course.

### **Assignment:**

Lecture Related Assignments:

1. Weekly Reading (10-20 pages)
2. Weekly quizzes
3. One crop presentation (15 minutes)
4. One crop plan project

## 5. Final exam

### Lab Related Assignments:

1. Field activity journal
2. Skill demonstrations on site, including seed planting; transplanting; bed preparation; and application of cultural practice

### 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.

Field activity journal

Writing  
10 - 20%

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

Crop plan project

Problem solving  
10 - 20%

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

Lab skills demonstrations

Skill Demonstrations  
10 - 20%

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

Quizzes; Final exam

Exams  
20 - 30%

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

Crop presentation

Other Category  
20 - 30%

### Representative Textbooks and Materials:

The Winter Harvest Handbook. Coleman, Eliot. Chelsea Green Publishing. 2009 (classic)  
Sustainable Market Farming: Intensive Vegetable Production on a Few Acres. Dawling, Pam. New Society Publishers. 2013 (classic)  
Instructor prepared materials