

**SUSAG 64 Course Outline as of Fall 2024****CATALOG INFORMATION**

Dept and Nbr: SUSAG 64 Title: WARM SEASON CROP PROD

Full Title: Warm Season Crop 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 warm season crops in Sonoma County, including vegetables and hemp. Topics include organic production practices, managing pests and diseases, and postharvest handling. Lab activities will include hands-on application of production and postharvest techniques at SRJC's Shone Farm.

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

Eligibility for ENGL 100 OR EMLS 100 (formerly ESL 100) or appropriate placement based on AB705 verbiage

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

Description: Class focuses on characteristics and production of major warm season crops in Sonoma County, including vegetables and hemp. Topics include organic production practices, managing pests and diseases, and postharvest handling. Lab activities will include hands-on application of production and postharvest techniques at SRJC's Shone Farm. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 OR EMLS 100 (formerly ESL 100) or appropriate placement based on AB705 verbiage

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>          | Effective: | Inactive: |
| <b>CSU GE:</b>    | <b>Transfer Area</b> | Effective: | Inactive: |

|               |                      |            |           |
|---------------|----------------------|------------|-----------|
| <b>IGETC:</b> | <b>Transfer Area</b> | Effective: | Inactive: |
|---------------|----------------------|------------|-----------|

|                      |              |            |             |           |
|----------------------|--------------|------------|-------------|-----------|
| <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 warm season crops suitable for Sonoma County soils and microclimates.
2. Create appropriate planting layouts for warm season crops within the available planting space.
3. Plan and implement a schedule of cultural and cost-effective practices from soil preparation through harvest for a warm season crop.
4. Discuss and apply appropriate postharvest handling practices for warm season crops.

**Objectives:**

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

1. Identify varieties of warm season crops suitable for Sonoma County soils and microclimates.
2. Demonstrate proper techniques for seed planting in flats or direct seeding in ground.
3. Identify and evaluate planting layouts for warm season crops based on space and selected plants.
4. Determine optimal schedule and cultural practices for a warm season crop.
5. Identify and recommend control measures for common pests, diseases and weeds of warm season crops.
6. Discuss and apply techniques for cultivating hemp as a warm season crop.
7. Determine optimal harvest time and postharvest conditions for warm season crops.

**Topics and Scope:**

- I. Warm Season Vegetable Varieties Specifically Suited to Sonoma County Conditions and Markets
- II. Other Warm Season Crops

- A. Cut flowers
- B. Warm season cover crops
- III. Hemp as a Warm Season Crop
  - A. Botany
  - B. Regulations
  - C. Crop planning
  - D. Field cultivation of hemp for cannabinoids
  - E. Hemp cultivation for fiber
- IV. Production
  - A. Seed planting in flats
  - B. Seeding directly in ground
  - C. Quantities and spacing of varieties for desired yields
  - D. Planting layouts
  - E. Crop rotation
- V. Cultural Practices Through the Season
  - A. Thinning
  - B. Training/staking
  - C. Irrigation
  - D. Fertilization
  - E. Cultivation and weeding
- VI. Pest Management
  - A. Weeds
  - B. Diseases
  - C. Insects
- VII. Harvest Methods
  - A. Harvest techniques and tools
  - B. Harvest timing by crop
- VIII. Postharvest Handling
  - A. Food safety practices
  - B. Optimal storage conditions by crop
  - C. Postharvest tools and equipment

Concepts presented in lecture are applied and practiced in lab.

**Assignment:**

Lecture-Related Assignments:

1. Weekly reading (10-20 pages)
2. Weekly quizzes
3. Discussions (in-class or online) (6-10)
4. Three to five crop planning assignments, such as: soil management plan, crop rotation plan, choosing crop varieties, pest and disease management, etc.
5. One crop production plan project

Lab-Related Assignments:

1. Skill demonstrations on site, including seed planting; application of cultural practices; pest and weed identification

**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.

Discussions

Writing  
15 - 25%

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

Crop planning assignments, Crop production plan project

Problem solving  
35 - 50%

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

Lab skill demonstration activities

Skill Demonstrations  
10 - 20%

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

Quizzes

Exams  
15 - 25%

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

None

Other Category  
0 - 0%

**Representative Textbooks and Materials:**

Sustainable Market Farming: Intensive Vegetable Production on a Few Acres. Dawling, Pam. New Society Publishers. 2013 (classic)

Instructor prepared materials