

CATALOG INFORMATION

Dept and Nbr: HORT 54            Title: PLANT MATERIALS: SU/FALL  
Full Title: Plant Materials: Summer/Fall  
Last Reviewed: 12/12/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00	Lab Scheduled	3.00	17.5	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable  
Grading:            Grade or P/NP  
Repeatability:    03 - May Be Taken for a Total of 3 Units  
Also Listed As:  
Formerly:

**Catalog Description:**  
Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to California climates. Includes an introduction to plant taxonomic system and botanical nomenclature. Emphasis on plants listed in the current California Association of Nurserymen (CAN) and Associated Landscape Contractors of America (ALCA) Certification Tests Plant Lists. Presentation of those plants best observed and studied in the summer and fall of the year through field lectures on SRJC grounds and at other locations. This course is equivalent to HORT 55.1 and HORT 55.2; students successfully completing those courses are not eligible to enroll in this course.

**Prerequisites/Corequisites:**

**Recommended Preparation:**  
Eligibility for ENGL 100A or ENGL 100.

**Limits on Enrollment:**

**Schedule of Classes Information:**  
Description: Identification, growth habits, culture & ornamental use of plants adapted to

California climates. Intro. to plant taxonomic system & botanical nomenclature. Field lectures on SRJC grounds and at other locations. This course is equivalent to HORT 55.1 and 55.2; students successfully completing those courses are not eligible to enroll in this course. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100A or ENGL 100.

Limits on Enrollment:

Transfer Credit: CSU;UC.

Repeatability: May Be Taken for a Total of 3 Units

## **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:
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<b>CSU Transfer:</b>	Transferable	Effective:	Fall 2004	Inactive:
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<b>UC Transfer:</b>	Transferable	Effective:	Fall 2006	Inactive:
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### **CID:**

CID Descriptor: AG - EH 112L Plant Materials and Usage II

SRJC Equivalent Course(s): HORT12 OR HORT8

### **Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon successful completion of this course students will be able to:

1. Demonstrate correct usage of botanical nomenclature.
2. Correctly pronounce botanical and common plant names.
3. Classify plants based on the binomial method of plant nomenclature.
4. Identify a range of native and exotic plants by leaf, bark, flower, fruit, and growth habit.
5. Evaluate the growth habits and soil and water requirements of different plants.
6. Select plants according to desired function, growth habits, climate, exposure, and maintenance requirements.
7. Determine and recommend to a client cultural practice for plants in the landscape that will promote plant health and endurance.
8. Assess plants for landscaping purposes to provide desired foliage, flower, and form characteristics and make recommendations to clients.
9. Evaluate plants based on their suitability for water efficient landscapes.
10. Use plant keys to identify specimens.
11. Demonstrate proper plant materials collection and preservation methods.

### **Topics and Scope:**

1. Introduction to plant taxonomic system and botanical nomenclature
  - a. Family, genus, and species
  - b. Classification below species level
    1. cultivars
    2. varieties
    3. subspecies
  - c. Interspecies and intergeneric hybrids
  - d. Conventions for writing botanical names
2. External structures used in identification of plants
  - a. Leaves
  - b. Buds
  - c. Stem
  - d. Bark
  - e. Flowers
  - f. Fruit
3. Identification by sight memory of 100-125 plants best observed in the summer and/or fall (from the CAN and ACLA plant lists):
  - a. Indoor plants
  - b. Annuals
  - c. Perennials
  - d. Vines
  - e. Ground covers
  - f. Trees
4. Growth habits and requirements
  - a. Origin and climatic range
  - b. Form of growth
  - c. Rate of growth
  - d. Ultimate growth height and spread
  - e. Leaf structure
  - f. Flower color and season
  - g. Fruit type
  - h. Exposure
    1. sun
    2. shade
    3. half sun/shade
  - i. Soil and water requirements of the plants studied
  - j. Pruning to fit the landscape requirements
  - k. Landscape use
  - l. Significant pests and diseases

### **Assignment:**

Representative assignments:

1. Written (lab) report (2-3 pages) and oral presentation on selected plant or plant group.
2. Conduct research on plant requirements and compile information.
3. Construct plant care signs and create labels for SRJC nursery and greenhouse.
4. Participate in horticulture program plant sale activity.
5. Using plant ID key, identify and collect plant specimens in the field.
6. Properly prepare and mount specimens and label them with appropriate

- identification labels.
7. Quizzes (7), midterm, and final exam covering plant identification and cultural requirements.
  8. 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.

Report on a selected plant or plant group.	Writing 10 - 20%
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**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Field work	Problem solving 15 - 50%
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**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Oral report and plant sale participation.	Skill Demonstrations 15 - 30%
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**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Completion	Exams 20 - 40%
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**Other:** Includes any assessment tools that do not logically fit into the above categories.

None	Other Category 0 - 0%
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### Representative Textbooks and Materials:

1. SUNSET WESTERN GARDEN BOOK. Menlo Park, CA: Sunset Publishing Group, 2001.
2. Wait, D. Dwight. ORNAMENTAL PLANTS: THEIR CARE, USE, PROPAGATION AND IDENTIFICATION. Modesto, CA: D. Wait, 1994.
3. American Horticulture Society, A-Z ENCYCLOPEDIA OF GARDEN PLANTS. NY: DK Publishing, 1996.
4. Dirr, M.A., MANUAL OF WOODY LANDSCAPE PLANTS. Champagne, IL: Stipes Publishing Co., 1998.