

HORT 8 Course Outline as of Fall 2017**CATALOG INFORMATION**

Dept and Nbr: HORT 8 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	8	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: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: HORT 54

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 and Garden Centers (CANGC) and National Association of Landscape Professionals (NALP) 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.

Prerequisites/Corequisites:**Recommended Preparation:**

Eligibility for ENGL 1A or equivalent

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

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 and Garden Centers (CANGC) and National Association of Landscape Professionals (NALP) 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. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 1A or equivalent

Limits on Enrollment:

Transfer Credit: CSU;UC.

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

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area			Effective:	Inactive:
CSU GE:	Transfer Area			Effective:	Inactive:
IGETC:	Transfer Area			Effective:	Inactive:
CSU Transfer:	Transferable	Effective:	Fall 2004	Inactive:	
UC Transfer:	Transferable	Effective:	Fall 2006	Inactive:	

CID:

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

SRJC Equivalent Course(s): HORT12 OR HORT8

Certificate/Major Applicable:

Both Certificate and Major Applicable

COURSE CONTENT

Outcomes and Objectives:

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

1. Explain the botanical method of plant nomenclature.
2. Correctly pronounce botanical and common plant names.
3. Classify plants based on the binomial method of plant nomenclature.
4. Identify and classify landscape plants using physical features of leaf, bark, flower, fruit and flower habit.
5. Identify a range of native and exotic plants by leaf, bark, flower, fruit, and growth habit.
6. Describe the importance of growth habits, soil and water requirements of plants in different ecologies.
7. Select plants according to desired function, growth habits, climate, exposure, and maintenance requirements.
8. Determine and recommend to a client cultural practice for plants in the landscape that will promote plant health and endurance.
9. Assess plants for landscaping purposes to provide desired foliage, flower, and form characteristics and make recommendations to clients.
10. Evaluate plants based on their suitability for water efficient landscapes.
11. Summarize the various uses of plants as related to landscapes and garden applications.
12. Demonstrate the use of computerized plant selection programs
13. Use plant keys to identify specimens.
14. Demonstrate proper plant materials collection and preservation methods.

Topics and Scope:

- I. Introduction to Plant Taxonomic System and Botanical Nomenclature
 - A. Conventions for writing botanical names (Family, genus, and species)
 - B. Classification below species level
 - 1. cultivars
 - 2. varieties
 - 3. subspecies
 - C. Interspecies and intergeneric hybrids (e.g. budded and grafted plants, lines, clones)
 - D. Conventions for writing botanical names
- II. External Structures Used in Identification of Plants
 - A. Leaves
 - B. Buds
 - C. Stem
 - D. Bark
 - E. Flowers
 - F. Fruit
- III. Identification by Sight Memory of 200 Plants Best Observed in the Summer and Fall (from the CANGC and NALP plant lists) with Collection and Preservation of Specimens
 - A. Indoor plants
 - B. Annuals
 - C. Perennials
 - D. Vines
 - E. Ground covers
 - F. Shrubs
 - G. Trees
- IV. 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, texture and color
 - F. Flower color and texture in relation to landscape use
 - G. Fruit type, size and color
 - H. Exposure
 - 1. sun
 - 2. shade
 - 3. half sun/shade
 - I. Soil and water requirements of the plants studied
 - J. Maintenance needs of plants (e.g pruning)
 - K. Landscape use of plant studied
 - L. Significant pests and diseases of plant studied
 - M. Propagation methods for each plant studied

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

Assignment:

- 1. Written report (5 pages) and oral presentation on selected plant or plant group.
- 2. Conduct research on plant requirements and compile information.
- 3. Using plant ID key, identify and collect plant specimens in the field.

4. Properly prepare and mount specimens and label them with appropriate identification labels.
5. Quizzes (7), midterm, and final exam covering plant identification and cultural requirements.

Laboratory Activities may include but not limited to:

1. Utilizing the Western Garden Book (Climate Zones) section, students will identify the climate zones for specific cities in California
2. Identify botanical terms as they relate to plant structures used in plant identification
3. Collect or take digital photographs of plant materials and identify plants using software applications
4. Create a plant characteristics key or chart
5. How to use plant keys
6. Identification of plant from leaf, flower, seed, bud, stem and bark
7. Design a landscape based of climate zone, soil characteristics and available plant materials

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%

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

Field work

Problem solving
15 - 50%

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

Oral report

Skill Demonstrations
15 - 30%

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

Multiple choice, True/false, Completion

Exams
20 - 40%

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

None

Other Category
0 - 0%

Representative Textbooks and Materials:

Sunset Western Garden Book. 9th ed. Editors of Sunset Magazine. Oxmoor House, Inc. 2012 (classic)

Manual of Woody Landscape Plants: Their Identification, Ornamental Characteristics, Culture, Propagation and Uses. 5th ed. Dirr, Michael. Stipes Pub. 1998 (classic)

Ornamental Plants: Their Care, Use, Propagation, and Identification. Revised ed. Wait, D. Dwight. Kendall/Hunt. 1994 (classic)

