

Course Outline of Record

1. Course Code: AGEH-005
2. a. Long Course Title: Ornamental Plant Identification
 b. Short Course Title: ORNMTL PLNT IDENTIF
3. a. Catalog Course Description:
 This course first acquaints the student with the principles of plant taxonomy and the descriptive language necessary to discuss plants accurately. It then goes on to introduce 240 species of perennials, interior plants, vine, ground covers, and succulents for California’s low elevation deserts. Each plant is covered with respect to its identification, growth habits, culture, use and pests.
 b. Class Schedule Course Description:
 This course first acquaints the student with the principles of plant taxonomy and the descriptive language necessary to discuss plants accurately. Over 240 plants are introduced.
 c. Semester Cycle (if applicable): *N/A*
 d. Name of Approved Program(s):
 - ENVIRONMENTAL HORTICULTURE AS Degree for Employment Preparation
 - ENVIRONMENTAL HORTICULTURE Certificate of Achievement
4. Total Units: 3.00 Total Semester Hrs: 90.00
 Lecture Units: 2 Semester Lecture Hrs: 36.00
 Lab Units: 1 Semester Lab Hrs: 54.00
 Class Size Maximum: 26 Allow Audit: No
 Repeatability No Repeats Allowed
 Justification 0
5. Prerequisite or Corequisite Courses or Advisories:
Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm I-A)
N/A
6. Textbooks, Required Reading or Software: (List in APA or MLA format.)
 a. Brenzel, K. (2012). *Sunset’s Western Garden Book* (9th/e). Oxmoor House. ISBN: 9780376039200
 College Level: Yes
 Flesch-Kincaid reading level: 12
7. Entrance Skills: *Before entering the course students must be able:*
8. Course Content and Scope:

Lecture:

<p>Course Content:</p> <ol style="list-style-type: none"> 1. Background of Botanical Nomenclature <ol style="list-style-type: none"> a. Categories of consecutive rank b. Cultivar names c. Hybrid names d. Budded and grafted plants names e. Lines f. Clones 2. External Structures Used in Identification of Plants <ol style="list-style-type: none"> a. Buds b. Item c. Bark d. Leaves

- e. Flowers
- f. Fruit

3. Identification by sight memory of 200 plants best observed in the spring season taken from the CANGC, PLANET, and college/university plant lists (from Addendum A) selected for regional climate zones:

- a. Indoor plants

~~b. **Annuals**~~

- c. Perennials
- d. Vines

~~e. **Ground covers**~~

- f. Shrubs
- g. Trees

4. Plant Physical or Growth Characteristics

- a. Origin and climatic range
- b. Form of growth
- c. Rate of growth
- d. Ultimate height and spread
- e. Leaf structure with special emphasis on texture and color
- f. Flower color and texture in relation to their value in landscape use
- g. Fruit size and color
- h. Exposure, soil and water requirements of the plants studied
- i. Maintenance needs of plant
- j. Landscape use of each species of plant studied
- k. Propagation of each plant studied
- l. Pests and diseases which attack the plants collected

Laboratory Activities may include but are not limited to:

- 1. Utilizing the Western Garden Book (Climate Zones) section students will find and identify the climate zone for the following cities in California.
- 1. Identify botanical terms as they relate to plant structures used in plant identification.
- 1. Collect or take digital photograph of plant material
- 1. Create a plant characteristics key or chart
- 1. How to use plant keys
- 1. Identification of plants from leaf, flower, seed, bud, stem and bark.

Lab: (if the "Lab Hours" is greater than zero this is required)

See course content.

9. Course Student Learning Outcomes:

- 1. Identify ornamental plants on sight.

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2.

Classify both botanical and common names ornamental plants.

3.

Explain the cultural needs required for 240 ornamental plants in order to grow successfully in a desert environment.

10. Course Objectives: *Upon completion of this course, students will be able to:*

a. • Explain the binomial method of plant nomenclature • Identify botanical terms (plant identification terminology) as related to various plant parts and structures • Identify and classify landscape plants using physical features of leaf, bark, flower, fruit, and growth habit • Describe the importance of understanding soil requirements, water usage and ecology of different plants • Summarize the various uses of plants as related to landscape and garden applications • Explain growth habits and requirements • Select plants with requirements that conform to selected landscape use criteria • Use plant keys to identify plants • Demonstrate the use of computerized plant selection programs • Create a plant characteristics key for future design work

11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*

- a. Discussion
- b. Laboratory
- c. Lecture
- d. Observation
- e. Participation

Other Methods:

a. 20 Plants will be studied each week b. Report will be given about the culture, uses, diseases, pests, origin and growing habits and history of each plant c. Each student is required to keep a notebook d. Hands-on plants identification in the field. e. Slides and prepared plant material for visual observation

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*

In Class Hours: 90.00

Outside Class Hours: 72.00

a. Out-of-class Assignments

1. Reading assignments from required text.
2. Compile all plant information in notebook form.

b. In-class Assignments

1. List each plant correctly by family genus and species
2. Keep notebook in order by trees, shrubs, groundcovers, vines, annuals
3. Either take pictures or prepare preserve specimens for notebook

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

- Term or research papers
Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers
- Field/physical activity observations
- Mid-term and final evaluations
- Student participation/contribution
- Student preparation

14. Methods of Evaluating: Additional Assessment Information:

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- a. A plant notebook to consist of each plant ID sheet and a sample of the plant
- b. 3 midterms each consisting of identification of 100 field specimens by family, genus and species
- c. One cumulative final test in the field representing 300 different plants

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*

PO - Career and Technical Education

Fulfill the requirements for an entry- level position in their field.

Apply critical thinking skills to execute daily duties in their area of employment.

Apply critical thinking skills to research, evaluate, analyze, and synthesize information.

Display the skills and aptitude necessary to pass certification exams in their field.

Transfer to a higher level learning institution

IO - Personal and Professional Development

Self-evaluate knowledge, skills, and abilities.

IO - Scientific Inquiry

Analyze quantitative and qualitative information to make decisions, judgments, and pose questions.

IO - Aesthetics

Value appearance in terms of how pleasing it is in movement, form, and function.

16. Comparable Transfer Course

University System	Campus	Course Number	Course Title	Catalog Year
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17. Special Materials and/or Equipment Required of Students:

18. Materials Fees: Required Material?

Material or Item

Cost Per Unit

Total Cost

19. Provide Reasons for the Substantial Modifications or New Course:

Remove English 70 advisory

- 20. a. Cross-Listed Course (*Enter Course Code*): *N/A*
- b. Replacement Course (*Enter original Course Code*): *N/A*

21. Grading Method (*choose one*): Letter Grade Only

22. MIS Course Data Elements

a. Course Control Number [CB00]: CCC000391343

b. T.O.P. Code [CB03]: 10900.00 - Horticulture

c. Credit Status [CB04]: D - Credit - Degree Applicable

d. Course Transfer Status [CB05]: A = Transfer to UC, CSU

e. Basic Skills Status [CB08]: 2N = Not basic skills course

f. Vocational Status [CB09]: Clearly Occupational

g. Course Classification [CB11]: Y - Credit Course

h. Special Class Status [CB13]: N - Not Special

i. Course CAN Code [CB14]: *N/A*

j. Course Prior to College Level [CB21]: Y = Not Applicable

k. Course Noncredit Category [CB22]: Y - Not Applicable

l. Funding Agency Category [CB23]: Y = Not Applicable

m. Program Status [CB24]: 1 = Program Applicable

Name of Approved Program (*if program-applicable*): ENVIRONMENTAL HORTICULTURE, ENVIRONMENTAL HORTICULTURE

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Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)

23. Enrollment - Estimate Enrollment

First Year: 26

Third Year: 26

24. Resources - Faculty - Discipline and Other Qualifications:

a. Sufficient Faculty Resources: Yes

b. If No, list number of FTE needed to offer this course: *N/A*

25. Additional Equipment and/or Supplies Needed and Source of Funding.

N/A

26. Additional Construction or Modification of Existing Classroom Space Needed. (*Explain:*)

N/A

27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES

Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes

28. Originator Eddie Vaca Origination Date 10/27/17