

Course Outline of Record

1. Course Code: AGEH-001L
2.
 - a. Long Course Title: Horticulture Laboratory
 - b. Short Course Title: HORTICULTURE LAB
3.
 - a. Catalog Course Description:

This laboratory is the companion of AGEH-001. It is intended to provide an introduction to basic horticultural skills as well as direct experience with horticultural operations. Included are: plant propagation, tree and shrub pruning, transplanting, nursery practices, landscape practices, and the use of pesticides and fertilizers.
 - b. Class Schedule Course Description:

This laboratory is the companion of AGEH-001. It is intended to introduce basic horticultural operations such as plant propagation, pruning, transplanting, plant use, and pesticides.
 - c. Semester Cycle (if applicable): N/A
 - d. Name of Approved Program(s):
 - ENVIRONMENTAL HORTICULTURE AS Degree and Transfer Preparation
 - ENVIRONMENTAL HORTICULTURE AS Degree for Employment Preparation
 - ENVIRONMENTAL HORTICULTURE Certificate of Achievement
 - TURFGRASS MANAGEMENT AS Degree for Employment Preparation
 - TURFGRASS MANAGEMENT Certificate of Achievement
4. Total Units: 1.00 Total Semester Hrs: 54.00
 Lecture Units: 0 Semester Lecture Hrs: 0
 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)

Advisory: AGEH 001 Concurrent enrollment or prior completion
6. Textbooks, Required Reading or Software: (List in APA or MLA format.) N/A
7. Entrance Skills: *Before entering the course students must be able:*
 - a.

Identify, organize, plan, and allocate resources

 - AGEH 001 - Identify, organize, plan, and allocate resources
 - b.

Understand complex environmental interrelations

 - AGEH 001 - Understand complex environmental interrelations
 - c.

Work with a variety of horticultural technologies

 - AGEH 001 - Work with a variety of horticultural technologies
8. Course Content and Scope:

Lecture:

See lab content.

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

1. Plant propagation by:
 1. Seed
 2. Air layering
 3. Herbaceous and semi-hardwood cuttings
 4. Liners
2. Reading landscape plans
3. Tree and shrub pruning
4. Transplanting of trees and shrubs
5. Espalier of vines
6. Turfgrass installation and care
7. Fertilizer applications
8. Pesticide applications
9. Basic nursery practices
10. Landscape irrigation

9. Course Student Learning Outcomes:

1.
The student will be able to demonstrate basic horticultural operations, including plant propagation, pruning, transplanting, plant use, and pesticides.
2.
The student will be able to utilize a basic taxonomic key in identifying plant materials.
3.
The student will present a detailed term paper, along with a presentation to the class, explaining an area of horticulture of their choosing.

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

- a. Describe how to propagate plants by seed, cuttings, division, air layering
- b. Read a basic landscape design and materials list
- c. Prune trees and shrubs properly in the Desert environment
- d. Transplant trees, shrubs, and cuttings from liners
- e. Properly install wire and espalier a vine
- f. Install turfgrass from sod, stolons, and seed
- g. Calculate and apply fertilizers to trees and shrubs
- h. Calculate and apply pesticides to trees and shrubs
- i. Perform basic nursery practices
- j. Calculate proper irrigation requirements for trees and shrubs

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

- a. Collaborative/Team
- b. Demonstration, Repetition/Practice
- c. Laboratory
- d. Lecture
- e. Participation

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

In Class Hours: 54.00
Outside Class Hours: 0

a. In-class Assignments

1. Complete flats of cuttings demonstrating proper techniques
2. Prepare soil mixes for cuttings, house plants, and ornamentals
3. Complete various laboratory exercises on transplanting, plant installation, turf installation, espalier vines, greenhouse practices, and soil testing.
4. Research paper - 10 pages with 2 pages of scientific support material representing diversity of horticulture science, also requires bibliography and footnotes.

b. Out-of-class Assignments

1. Research paper - 10 pages with 2 pages of scientific support material representing diversity of horticulture science, also requires bibliography and footnotes.

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

- Term or research papers
- Laboratory projects
- Presentations/student demonstration observations
- Mid-term and final evaluations
- Student preparation

14. Methods of Evaluating: Additional Assessment Information:

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

CSU GE Area B: Physical and its Life Forms(mark all that apply)

B2 - Life Science

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.

Exhibit effective written, oral communication and interpersonal skills.

Transfer to a higher level learning institution

IO - Personal and Professional Development

Self-evaluate knowledge, skills, and abilities.

IO - Aesthetics

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

IO - Critical Thinking and Communication

Utilizing various communication modalities, display creative expression, original thinking, and symbolic discourse.

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
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AGEH 001L-Horticulture Laboratory

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

2-year periodic review

20. a. Cross-Listed Course (Enter Course Code): AGEH-001L
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]: CCC000310890
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]: Possibly 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, ENVIRONMENTAL HORTICULTURE, TURFGRASS MANAGEMENT, TURFGRASS MANAGEMENT

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