

Course Outline of Record

1. Course Code: AGEH-020
2.
  - a. Long Course Title: Landscape Construction
  - b. Short Course Title: LANDSCAPE CONSTRUCTION
3.
  - a. Catalog Course Description:  
Covers the fundamentals of landscape construction, including soil preparation, paving and construction materials, hand and power tool use, turf and plant installation, plan reading, estimating and bid preparation.
  - b. Class Schedule Course Description:  
Fundamentals of landscape construction in the desert area using desert plants, construction materials and installation.
  - c. Semester Cycle (if applicable): Spring
  - d. Name of Approved Program(s):
    - ENVIRONMENTAL HORTICULTURE AS Degree for Employment Preparation
4. Total Units: 2.00      Total Semester Hrs: 72.00  
 Lecture Units: 1      Semester Lecture Hrs: 18.00  
 Lab Units: 1      Semester Lab Hrs: 54.00  
 Class Size Maximum: 24      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 or  
 Advisory: AGPS 005
6. Textbooks, Required Reading or Software: (List in APA or MLA format.)
  - a. Nick Christians, Michael L. Agnew (2016). *The Mathematics of Turfgrass Maintenance* (4th/e). Independence, Kentucky Wiley. ISBN: 9780470048450  
 College Level: Yes  
 Flesch-Kincaid reading level: 13.0
7. Entrance Skills: *Before entering the course students must be able:*
  - a. Describe the plant body of many higher plants beginning with seed through root, stem, leaf, flower, and fruit.
    - AGPS 005 - Describe the plant body of many higher plants beginning with seed through root, stem, leaf, flower, and fruit.
  - b. Apply binomial taxonomic system and justify its use.
    - AGPS 005 - Apply binomial taxonomic system and justify its use.
  - c. Manipulate plants in various ways including propagate, prune, fertilize, control pests safely, and alter deteriorous soil conditions.
    - AGEH 001 - Work with a variety of horticultural technologies
  - d. Synthesize information about plant, soil, air, water, and organisms into a view of biology as a whole system.
    - AGEH 001 - Understand complex environmental interrelations
8. Course Content and Scope:

Lecture:

1. Scope of landscape Industry in California
2. Legal requirements to operate as a C-27 Landscape Contractor
3. Safety
4. Scheduling and sequence of installation activities
5. Grading and drainage
6. Irrigation
7. Wood Construction
8. Concrete Construction
9. Masonry Construction
10. Water Features
11. Landscape Lighting
12. Planting Methods
13. Lawn Installation
14. Job costs, estimating and bidding
15. Industry associations and certification

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

1. Identification of tools and safety equipment.
2. Reading of construction drawings.
3. Compiling materials lists
4. Construction of wood projects
5. 'Hard' construction projects, i.e. masonry and concrete.
6. Construction of water features
7. Construction of landscape projects.

9. Course Student Learning Outcomes:

1.  
Analyze a landscape plan and create a comprehensive 'take-off' from that plan.
2.  
Read and interpret a landscape plan for the purpose of installation.
3.  
Identify, and operate, the common tools found in creating a proper landscape.

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

- a. Identify landscape professions and summarize licensing requirements
- b. Demonstrate safety consciousness in dress/apparel, tool use, job site demeanor, and personal safety equipment
- c. Select appropriate hand tool for a variety of landscape products
- d. Use of hand and power tools to construct wood projects
- e. Use of appropriate tools to construct masonry and concrete projects
- f. Describe the fundamentals of landscape lighting installation
- g. Recommend soil preparation methods for various soil conditions
- h. Use leveling devices to establish finish grades and control drainage/run off
- i. Install an irrigation system
- j. Describe steps required in the installation of a lawn by seed and sod methods
- k. Demonstrate proper tree/shrub/ground covers planting methods including staking systems
- l. Using landscape plans, estimate material quantities and costs
- m. Describe the importance of professionalism in the landscape industry and list industry associations and certification programs

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

# AGEH 020-Landscape Construction

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

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

In Class Hours: 72.00

Outside Class Hours: 36.00

a. In-class Assignments

- 1. Bid take off
- 2. Summarize Licensing requirements
- 3. Describe fundamentals of safety in tool use

b. Out-of-class Assignments

- 1. Bid take off
- 2. Read on text and assigned material
- 3. Bid presentation

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

- Presentations/student demonstration observations
- Mid-term and final evaluations
- Student participation/contribution

14. Methods of Evaluating: Additional Assessment Information:

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.

Exhibit effective written, oral communication and interpersonal skills.

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

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

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18. Materials Fees:  Required Material?

<b>Material or Item</b>	<b>Cost Per Unit</b>	<b>Total Cost</b>
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# AGEH 020-Landscape Construction

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

2-year periodic review

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]: CCC000338654  
b. T.O.P. Code [CB03]: 10900.00 - Horticulture  
c. Credit Status [CB04]: D - Credit - Degree Applicable  
d. Course Transfer Status [CB05]: B = Transfer 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

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

23. Enrollment - Estimate Enrollment

First Year: 0

Third Year: 0

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