AGEH 001: HORTICULTURE

Originator

evaca

Justification / Rationale

Post pandemic analysis revealed that students have and could benefit from having the option to take this course in person or in an online modality.

Effective Term

Spring 2023

Credit Status

Credit - Degree Applicable

Subject

AGEH - Agriculture/Envronmntl Hortic

Course Number

001

Full Course Title

Horticulture

Short Title

HORTICULTURE

Discipline

Disciplines List
Agriculture

Modality

Face-to-Face
100% Online
Hybrid

Catalog Description

A general course in Environmental Horticulture with emphasis on nursery operations, landscaping, and turfgrass management. Topics include basic botany, cultural practices, propagation, structures and layout, pest management, planting, container gardening and houseplants, plant identification, turfgrass installation and care, and survey of career opportunities.

Schedule Description

A general course in Environmental Horticulture with emphasis on nursery operations, landscaping, and turfgrass management.

Lecture Units

3

Lecture Semester Hours

54

Lab Units

0

In-class Hours

54

Out-of-class Hours

108

Total Course Units

3

Total Semester Hours
162

Required Text and Other Instructional Materials

Resource Type
Book

Author
Call, Robert

Title
Arizona Master Gardener Manual

Edition
Revised

Publisher
The University of Arizona

Year
1999

College Level
Yes

Flesch-Kincaid Level
12.

Resource Type
Manual

Author
Nick Christians, Michael L. Agnew

Title
The Mathematics of Turfgrass Maintenance

Publisher
Wiley

Year
2016-10-27

Class Size Maximum
26

Course Content
1. The environmental Horticulture Industry in California
2. Environmental Issues and Regulations
3. Horticultural occupations and their Employment requirements
4. Tools, equipment, and safety practices
5. Plant structures and functions
6. Soils and container media
7. Plant Propagation
8. Requirements of plant growth
9. Irrigation and fertilizing
10. Pest and disease damage identification

11. Horticultural structures
12. Environmental Horticulture business
13. Nursery and greenhouse crops - planting and care
14. Plants in the Landscape
15. Plant identification and nomenclature
16. Common Turf and Landscape practices

Course Objectives

	Objectives
Objective 1	Identify, organize, plan, and allocate resources
Objective 2	Demonstrate interpersonal skills
Objective 3	Acquire and use information
Objective 4	Understand complex environmental interrelations
Objective 5	Work with a variety of horticultural technologies

Student Learning Outcomes

	Upon satisfactory completion of this course, students will be able to:
Outcome 1	Identify plant anatomy, morphology and physiology.
Outcome 2	Explain the theory of plant propagation, pruning, and fertilization.
Outcome 3	Describe the major insects, weeds, and diseases found in local horticulture.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Participation	Student participation will consist of the completion of assignments and quizzes and participating in weekly discussions.
Lecture	Lecture will be conducted online through recorded lectures with aid of power points and extra online content.
Discussion	Topics pertaining to the weeks chapter will be discussed during class or can be assigned as an assignment.

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Written homework	The student will be assigned homework found on their class canvas shell. The student will be responsible to submit the assignment in the manner requested.	In and Out of Class
Self-paced testing	Self-paced testing will be conducted out of class.	In and Out of Class
Student participation/contribution	Student participation and contribution will done through the weekly discussion.	In and Out of Class
Mid-term and final evaluations	Mid-term and final evaluations will be conducted through quizzes and exams throughout the semester.	In and Out of Class
Tests/Quizzes/Examinations	Test/Quizzes/Examinations will be given in and out of class. The test, quizzes and exams will consist of visual and or written exams.	In and Out of Class
Group activity participation/observation	n/a	In and Out of Class
Presentations/student demonstration observations	Students will be responsible to present on a topic regarding the class. The presentation may in person or a recorded presentation if online.	In and Out of Class
Computational/problem-solving evaluations	n/a	In and Out of Class
Other	Homework from each chapter and oral presentation.	In and Out of Class

Assignments

Other In-class Assignments
a. Detailed note taking
b. Classroom participation

Other Out-of-class Assignments
a. Reading assignments from required text

Grade Methods
Letter Grade Only

Distance Education Checklist

Include the percentage of online and on-campus instruction you anticipate.

Online %
50
On-campus %
50

Instructional Materials and Resources

If you use any other technologies in addition to the college LMS, what other technologies will you use and how are you ensuring student data security?
N/A

If used, explain how specific materials and resources outside the LMS will be used to enhance student learning.
N/A

Effective Student/Faculty Contact

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

Within Course Management System:
Chat room/instant messaging
Discussion forums with substantive instructor participation
Online quizzes and examinations
Regular virtual office hours
Timely feedback and return of student work as specified in the syllabus

External to Course Management System:
Direct e-mail
Posted audio/video (including YouTube, 3cmediasolutions, etc.)
Telephone contact/voicemail

For hybrid courses:
Orientation, study, and/or review sessions
Scheduled Face-to-Face group or individual meetings

Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.
The methods to maintain Regular Effective Contact were chosen because those are the same methods, we currently use in our face to face and online courses. These methods were also selected since it establishes a clear line of communication between instructor and students. They can also clarify any areas of misunderstanding that can be a cause of using one method of contact. The last reason is to provide an option for nonconventional students who might have trouble on how the class is being managed or the modality of the class.

If interacting with students outside the LMS, explain how additional interactions with students outside the LMS will enhance student learning.
N/A

Other Information

Provide any other relevant information that will help the Curriculum Committee assess the viability of offering this course in an online or hybrid modality.

Offering a hybrid modality would provide both traditional and nontraditional students flexibility to their schedule. Hybrid modality would also open opportunities to agriculture students who were not able to commit to full time class schedule due to work and family commitments.

COD GE

C1 - Natural Sciences

CSU GE

B2 - Life Science

MIS Course Data

CIP Code

01.0601 - Applied Horticulture/Horticulture Operations, General.

TOP Code

010900 - Horticulture

SAM Code

D - Possibly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Credit Course

Approved Special Class

Not special class

Noncredit Category

Not Applicable, Credit Course

Funding Agency Category

Not Applicable

Program Status

Program Applicable

Transfer Status

Transferable to both UC and CSU

Allow Audit

No

Repeatability

No

Materials Fee

No

Additional Fees?
No

Approvals

Curriculum Committee Approval Date
11/01/2022

Academic Senate Approval Date
11/10/2022

Board of Trustees Approval Date
12/16/2022

Course Control Number
CCC000124881

Programs referencing this course
Liberal Arts: Math and Science AA Degree (http://catalog.collegeofthedesert.eduundefined/?key=29)
Agri-Business AS Degree (http://catalog.collegeofthedesert.eduundefined/?key=46)
Environmental Horticulture AS Degree (employment preparation) (http://catalog.collegeofthedesert.eduundefined/?key=47)
Environmental Horticulture AS Degree (transfer preparation) (http://catalog.collegeofthedesert.eduundefined/?key=48)
General Agriculture AS Degree (http://catalog.collegeofthedesert.eduundefined/?key=49)
Turfgrass Management AS Degree (http://catalog.collegeofthedesert.eduundefined/?key=50)
Agriculture Food Safety Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=83)
Agriculture Office Assistant Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=84)
Agriculture Office Professional Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=85)
Agriculture Pest Management Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=86)
Agriculture Technician Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=87)
Arborist Technician Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=88)
Environmental Horticulture Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=90)
Agriculture Irrigation Technician Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=91)
Landscape Irrigation Technician Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=92)
Pest Management Technician Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=93)
Turfgrass Management Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=95)
Turfgrass Management Technician Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=96)