

Course Outline of Record

1. Course Code: AGEH-027
2.
 - a. Long Course Title: Turfgrass & Landscape Pest Management
 - b. Short Course Title: TURF/LNDSCP PEST MGT
3.
 - a. Catalog Course Description:
 This course provides current state of the art and science of turfgrass and landscape pest management. The course is designed to provide the student with a comprehensive knowledge of disease, insect, and weed pests. Emphasis is placed on how to identify pests, where and why they occur, the damage that they may cause, life cycles of pests; cultural, chemical and other control measures designed to keep pest damage to a minimum.
 - b. Class Schedule Course Description:
 A course providing current IPM practices in landscape pest control.
 - c. Semester Cycle (if applicable): Fall
 - d. Name of Approved Program(s):
 - ENVIRONMENTAL HORTICULTURE AS Degree for Employment Preparation
4. Total Units: 3.00 Total Semester Hrs: 54.00
 Lecture Units: 3 Semester Lecture Hrs: 54.00
 Lab Units: 0 Semester Lab Hrs: 0
 Class Size Maximum: 36 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 (CCForm1-A)
N/A
6. Textbooks, Required Reading or Software: (List in APA or MLA format.)
 - a. Schumann, G. (1998). IPM Handbook for Golf Courses (latest/e). New York Wiley. ISBN: -
 College Level: Yes
 Flesch-Kincaid reading level: 12
 - b. Nick Christians, Michael L. Agnew. The Mathematics Of Turfgrass Maintenance. wiley , 10-28-2016.
7. Entrance Skills: *Before entering the course students must be able:*
8. Course Content and Scope:

Lecture:

a.	Introduction
b.	Maintenance of Turfgrasses and Landscape <ol style="list-style-type: none"> i. Integrated Pest Management ii. Zones of Adaptation iii. Blends and Mixes iv. Seeding and Vegetative Establishment v. Preparing the Site vi. Mowing, Leveling the Site, Irrigation vii. Nutrition viii. Thatch ix. Soil Compaction x. Maintenance Calendar
c.	Biology and Management of Weeds in Turfgrasses and Landscape <ol style="list-style-type: none"> i. Types of Weeds, Weed Biology, Weed Ecology ii. Influence of Weeds on Turf & Landscape

AGEH 027-Turfgrass & Landscape Pest Management

- | | | |
|----|-------|--|
| | iii. | Weed Identification |
| | iv. | Weed Germination |
| | v. | Cultural Control Methods |
| | vi. | Chemical Controls |
| d. | | Biology Management of Diseases in Turfgrasses and Landscape |
| | i. | Keys to Infectious Diseases |
| | ii. | Disease Management |
| | iii. | Chemical Management of Diseases |
| e. | | Biology and Control of Insects and Related Pests in Turfgrass and Landscapes |
| | i. | Root-Feeding Insects |
| | ii. | Leaf and Stem-Chewing Insects |
| | iii. | Leaf and Stem-Sucking Pests |
| | iv. | Mound and Hole-producing Insects and Relatives |
| | v. | Insects and Relatives That Do Little or No Damage |
| | vi. | Biting, Stinging, and Nuisance Pests |
| | vii. | Mammal and Bird pests |
| | viii. | Control of Insects |
| f. | | Additional Turfgrass and Landscape Problems |
| g. | | Application Equipment and the Safe use of Pesticides |
| h. | | Calibrating Equipment |

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

9. Course Student Learning Outcomes:

1. Prepare and present a comprehensive collection of different landscape weeds prevalent in the local landscape industry.
2. Prepare and present a comprehensive collection of different landscape insects prevalent in the local landscape industry.
3. Prepare and present a comprehensive compendium of different landscape diseases prevalent in the local landscape industry.

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

- a. Learn to identify the different turfgrass and landscape pests.
- b. Know the life cycle of pests and how to use the information to avoid development of problems.
- c. Identify the pests by observing damaged turfgrass and landscape areas.
- d. Learn which methods are presently most successful in controlling individual pest problems once the pest has been properly identified.

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

- a. Discussion
- b. Lecture
- c. Participation
- d. Technology-based instruction

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: 108.00

a. In-class Assignments

- | |
|--------------------------|
| 1. Extensive note-taking |
| 2. Class participation |

b. Out-of-class Assignments

- | |
|---|
| 1. Reading assignments from required text |
| 2. Term paper on a selected topic; extensive research will be necessary |

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

- Written homework
- Term or research papers

AGEH 027-Turfgrass & Landscape Pest Management

- Group activity participation/observation
- 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.

IO - Personal and Professional Development

Self-evaluate knowledge, skills, and abilities.

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
-------------------	--------	---------------	--------------	--------------

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

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]: CCC000326533

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]: Advanced 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.)

AGEH 027-Turfgrass & Landscape Pest Management

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