

HORT 71 Course Outline as of Fall 2012**CATALOG INFORMATION**

Dept and Nbr: HORT 71 Title: NURSERY PRODUCTION

Full Title: Nursery Production

Last Reviewed: 2/11/2019

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00	Lab Scheduled	3.00	17.5	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: AG 92.2

Catalog Description:

Course covers study of production techniques, growing media, watering, fertilization, marketing and sales, as well as nursery site selection and development.

Prerequisites/Corequisites:**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:**Schedule of Classes Information:**

Description: Course covers study of production techniques, growing media, watering, fertilization, marketing and sales, as well as nursery site selection and development. (Grade Only)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:

IGETC:	Transfer Area	Effective:	Inactive:
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CSU Transfer:	Transferable	Effective:	Fall 1984	Inactive:
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UC Transfer:		Effective:		Inactive:
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CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

Upon completion of this course, students will be able to:

1. Compare and contrast old and new nursery industry practices to assess changes and advances.
2. Identify and discuss significant events and developments in the history of the U.S. nursery industry.
3. Classify and describe nursery operations based on 4 major criteria: ownership; function; production system; and product.
4. List and identify characteristics of major federal laws and regulations that are of concern to the nursery industry.
5. Identify the top geographic centers of nursery production in the U.S. and the types of crops produced in each.
6. Identify the four major categories for nursery site selection.
7. Identify common plant placement patterns in nursery production areas and evaluate for production efficiency.
8. Compare and contrast container vs. field grown production systems for production and marketing advantages and challenges.
9. Describe common practices in commercial liner and plug production.
10. Summarize primary (environmental) and cultural modifiers of various plant characteristics or plant qualities.
11. Demonstrate cultural modification practices for a variety of plants.
12. Identify the function of commercial production media.
13. Identify common ingredients used in the production of media for container growing, describe their properties, and explain what each ingredient contributes to the media.
14. Identify essential nutrients for plant growth and development.
15. Discuss common commercial fertilizers and compare and contrast the properties and advantages of synthetic and organic types.
16. Compare and contrast different commercial methods of fertilizer application.
17. Determine how and when to apply fertilizer, depending on fertilizer and plant type.
18. Describe a variety of integrated pest management practices.
19. Describe the most common nursery storage facilities and their purposes.

20. Identify the responsibilities of buyer, seller, and carrier in the shipping of nursery materials.
21. Calculate the number of cuttings necessary to fulfill a production contract.
22. Estimate materials, facility, and labor costs associated with a production contract.

Topics and Scope:

1. The nursery industry
 - A. History of U.S. nursery industry
 - B. Current nursery industry practices
2. Nursery classifications and functions
3. Federal laws and regulations
4. U.S. production centers
5. Nursery site selection
 - A. Site organization and development
 - B. Planting patterns
6. Production Systems
 - A. Container grown
 - B. Field grown
 - C. Liner and plug
 - D. Seed/seedling
7. Modifying plant growth and development
 - A. Primary (environmental)
 - B. Cultural
8. Media and mixes
9. Essential nutrients and fertilization
 - A. Commercial fertilizers
 - B. Synthetic and organic fertilizers
10. Common plant pests and disorders and integrated pest management practices
11. Nursery storage facilities and their purposes
12. Shipping: responsibilities of buyer, seller, and carrier
13. Marketing and production contracts
14. Plant estimation: materials, facility, labor costs

Assignment:

1. 10-15-page written report and oral presentation on selected nursery production topic.
2. Proposal for small-scale nursery setup and operation.
3. 5-10 pages weekly reading; reading reports.
4. Field work, lab participation and lab reports.
5. 6-8 field trips and reports.
6. 3-5 tests and a final exam.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Reading reports, lab reports, production report

Writing 10 - 30%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Nursery proposal; field trip reports; field work; lab reports

Problem solving
10 - 40%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Field work

Skill Demonstrations
5 - 20%

Exams: All forms of formal testing, other than skill performance exams.

Tests and final exam: multiple choice, true/false, matching items, completion

Exams
30 - 60%

Other: Includes any assessment tools that do not logically fit into the above categories.

Lab participation; oral presentation

Other Category
10 - 30%

Representative Textbooks and Materials:

Nursery Management, Administration and Culture, 4th ed., H. Davidson, R. Mecklenburg, and C. Peterson, Prentice Hall, NJ, 2000 (classic)

Integrated Pest Management for Floriculture and Nurseries, Agriculture and Natural Resources, University of California, 2001 (classic)

The Reference Manual of Woody Plant Propagation, Michael Dirr and Charles W. Heuser, Jr., 2nd edition, Varsity Press, Cary, NC, 2006

Instructor prepared materials