

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:
Production and cultural care of commercial container grown and field grown nursery operations. A study of crop scheduling, growing media, watering, fertilization, post harvest handling, marketing and sales.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:
Description: Production & cultural care of commercial container grown & field grown nursery operations. (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:

The student will:

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. Evaluate possible nursery sites based on factors within the four selection categories: ecological; economic; sociological; and biological.
8. Compare and evaluate common nursery site organization principles and patterns.
9. Identify common plant placement patterns in nursery production areas and evaluate for production efficiency.
10. Compare and contrast container vs. field grown production systems for production and marketing advantages and challenges.
11. Describe common practices in commercial liner and plug production.
12. Summarize primary (environmental) and cultural modifiers of various plant characteristics or plant qualities.
13. Demonstrate cultural modification practices for a variety of plants.
14. Identify the function of commercial production media.
15. Identify common ingredients used in the production of media for container growing, describe their properties, and explain what each ingredient contributes to the media.
16. Identify essential nutrients for plant growth and development.
17. Discuss common commercial fertilizers and compare and contrast the

properties and advantages of synthetic and organic types.

18. Compare and contrast different commercial methods of fertilizer application.

19. Determine how and when to apply fertilizer, depending on fertilizer and plant type.

20. Describe a variety of integrated pest management practices.

21. Describe the most common nursery storage facilities and their purposes.

22. Analyze the market demands for nursery products of the 3 major nursery product markets (retail, landscape, and mail order).

23. Identify the responsibilities of buyer, seller, and carrier in the shipping of nursery materials.

24. Calculate the number of cuttings necessary to fulfill a production contract.

25. Estimate materials, facility, and labor costs associated with a production contract.

Topics and Scope:

I. The nursery industry

a. In the past

b. Today

II. Nursery classifications and functions

III. Laws & regulations

IV. Production centers

V. Site selection

VI. Site organization and development

a. Planting patterns

VII. Production Systems

a. Container grown

b. Field grown

c. Liner and plug

d. Seed/seedling

VIII. Modifying plant growth & development

IX. Media and mixes

X. Essential Nutrients and fertilization

XI. Common plant pests and disorders

XII. Nursery storage facilities

XIII. Shipping

XIV. Marketing

XV. Plant estimation

Assignment:

1. Written and oral report on selected nursery production topic.

2. Proposal for small-scale nursery setup and operation.

3. Readings and reading reports.

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.

Written homework, Reading reports, Lab reports, Term papers

Writing
10 - 30%

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

Homework problems, Field work, Lab reports, Quizzes, Exams

Problem solving
10 - 40%

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

Class performances, Field work, Performance exams

Skill Demonstrations
5 - 20%

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

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.

Other Category
10 - 30%

Representative Textbooks and Materials:

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