

COURSE OUTLINE

Tropical Landscape Horticulture

Course Title

No.

AG216

Dept. and Course

I. COURSE DESCRIPTION:

This course is designed to prepare students for job entry in landscaping private homes, schools, hotels, government buildings and recreation areas. This course covers landscape art, style and design; identification of ornamental and landscape plants; nursery productions of ornamental plants; and landscape establishment and maintenance.

II. SEMESTER CREDITS: 4

III. CONTACTS HOURS PER WEEK: 3 1.5 4.5
 Lec Lab Total

IV. PREREQUISITE: AG122 and AG124

V. STUDENT LEARNING OUTCOMES

Upon completion of this course, the student will be able, with 65% accuracy, to:

1. Explain the importance of landscaping and the career opportunities for it.
2. Identify common landscaping tools and explain their proper use.
3. Propagate tropical ornamental plants and observe the practices of a successful nursery management.
4. Identify the principles of design and explain their application to landscaping.
5. Demonstrate knowledge in the different ways of arranging plant materials.
6. Select and use the proper plant materials in the landscape.

VI. COURSE CONTENT

- A. Landscaping as a Career
- B. Landscaping Tools
- C. Nursery Management
 1. Propagating media
 2. Asexual propagation
 3. Environmental requirements:
 - a. Light
 - b. Moisture
 - c. Temperature
- D. Principles of Design
 1. Steps to planning a design
- E. Arranging Plant Materials
 1. Vertical layers
 2. Horizontal layers
 3. Massing
 4. Repetition
- F. Types of Trees and Shrubs
 1. Functions of trees and shrubs
 2. Types of silhouette

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| 7. Perform proper methods of installing trees and shrubs. | G. Installing Trees and Shrubs <ol style="list-style-type: none"> 1. Transplanting 2. Use of mulches 3. Fertilizing 4. Post-transplant Care |
| 8. Distinguish ground covers and vines and explain their uses in the landscape. | H. Ground Covers <ol style="list-style-type: none"> 1. Description 2. Usage 3. Types 4. Installing and maintaining |
| 9. Design a flower planting | I. Designing Flower Plantings |
| 10. Describe how flower borders and flowerbeds can be used in landscaping. | J. Flower Beds and Flower Borders |
| 11. Explain how grasses are being propagated, transplanted, and maintained. | K. Grasses and Turf |
| 12. Describe the types of materials used for constructed landscape enclosures. | L. Enclosure Materials |
| 13. Select a suitable natural or constructed surface material for a specific area. | M. Types of Surfacing Materials |
| 14. Explain the types and uses of enrichment items in the landscape. | N. Natural and Man-Made Enrichment Items |
| 15. Perform the practices of maintaining a landscape. | O. Maintaining the Landscape <ol style="list-style-type: none"> 1. Pruning trees and shrubs 2. Pruning hedges 3. Care of the Lawn |
| 16. Define and describe the purpose of Xeriscaping. | P. Seven principles of Xeriscaping <ol style="list-style-type: none"> 1. Benefits <ol style="list-style-type: none"> a. Economic b. Environmental c. Aesthetic 2. Landscape application |

VII. EQUIPMENT AND MATERIALS

- A. Flower seeds
- B. Fertilizer
- C. Landscaping Tools & Equipment
- D. Projector

E. Digital Camera

F. Standard Classroom Materials

VIII. TEXT:

Ingels, J.E. *Landscaping: Principles and Practices*. 7th Ed. Delmar Publisher, Inc., New York, NY.1992.

IX. METHODS OF INSTRUCTION

- A. Lecture/Discussion
- B. Demonstration
- C. Laboratory Activities
- D. Student Projects
- E. Field Trips

X. METHOD OF EVALUATION

The lecture portion of this course will account for 50% of the grade, while the laboratory will provide the other 50%.

- A. The components included in the computation of the final grade, with corresponding weights in percent, are:

<u>Lecture</u>	Percentage of Grade
Participation	05%
Quizzes	10%
Assignments	15%
Midterm & Final Exam	20%
<u>Laboratory</u>	
Participation	25%
Laboratory Write-Ups	05%
Projects	<u>20%</u>
	100%

- B. The transmutation of percent to letter grade is as follows:

90% - 100%	-----	A
80% - 89%	-----	B
70% - 79%	-----	C
65% - 69%	-----	D
0% - 64%	-----	F

TASK LISTING SHEET

AG216 Tropical Landscape Horticulture
Course No. & Title

Credits: 3 1 24
Lec Lab Total Lab Hrs

<u>TASK</u>	<u>HOURS</u>
SLO #1	3
1. Visit resorts and interview supervisors and landscapers. Evaluate their job descriptions and qualifications.	
SLO #2	3
1. Using the different landscaping tools, identify and demonstrate their proper uses.	
SLO #3	3
1. Propagate tropical ornamental plants in the nursery following the proper nursery management	
SLO #5-7	6
1. Using propagated ornamentals from the nursery, demonstrate the proper ways of arranging plant materials	
2. Install trees and shrubs properly and observe the post-transplant care.	
SLO #8-14	6
1. Make evaluations on the arrangements of flower plantings and turf grasses at different locations.	
2. Identify the types of surfacing materials, enclosure materials and enrichment items used in the landscape.	
3. Create a landscape design following the proper plants setting.	
SLO #15	3
1. Proceed to PCC landscaped areas and demonstrate the practices of maintaining a landscape.	
 TOTAL LAB HOURS	 <u>24</u>

***Lab hours are subject to change as necessary.**

Palau Community College
AG216 Tropical Landscape Horticulture
Course Learning Outcomes

During the course experience, the *course learning outcomes* (CLOs) will be assessed through the use of signature assignments. A rating scale will be used to determine the students' proficiency level of each CLO using specifically aligned assignments. The numerical ratings of 4, 3, 2 and 1 are not intended to represent the traditional school grading system of A, B, C, D and F. The descriptions associated with each of the numbers focus on the level of student performance for each of the course learning outcomes listed below.

Rating Scale:	4	Outstanding
	3	Proficient
	2	Developing
	1	Emerging

CLO # 1

Numerical Value	Students will be able to propagate tropical ornamental plants and observe proper nursery management practices.
4	Perform all the following tasks accurately <ul style="list-style-type: none"> • Follow proper propagating procedures in seed sowing, grafting, air layering and cuttings of ornamental plants. • Observe proper nursery management practices.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Perform all the tasks mentioned above inaccurately or incompletely

CLO # 2

Numerical Value	Students will be able to demonstrate the different ways of arranging plant materials.
4	Perform the following task accurately. <ul style="list-style-type: none"> • Correctly apply the principles of landscaping in the arrangement of plant materials.
3	Perform the task mentioned above but most with minor mistakes
2	Perform the task mentioned above but most are inaccurate or incomplete
1	Perform the task mentioned above inaccurately or incompletely

CLO # 3

Numerical Value	Students will be able to perform proper ways of installing trees and shrubs.
4	Perform all the following tasks accurately <ul style="list-style-type: none"> • Follow correct procedures in site preparation for trees or shrubs. • Follow correct procedures for uprooting and transplanting of trees or shrubs. • Follow proper post-care practices after transplanting trees or shrubs.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Perform all the tasks mentioned above inaccurately or incompletely

CLO # 4

Numerical Value	Students will be able to describe how flower borders and flowerbeds are used in landscaping
4	Perform all the following tasks accurately <ul style="list-style-type: none">• Accurately describe how flower borders are used in landscaping.• Accurately describe how flowerbeds are used in landscaping.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Perform all the tasks mentioned above inaccurately or incompletely

CLO # 5

Numerical Value	Students will be able to, using a functional diagram, create a landscape design following the principles of landscaping.
4	Perform the following tasks accurately <ul style="list-style-type: none">• Accurately follow the six steps to planning a landscape design.• Accurately design a landscape, including flowerbeds and flower borders based on the six principles of landscaping.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Perform all the tasks mentioned above inaccurately or incompletely