

## COURSE OUTLINE

Tropical Landscape Horticulture  
Course Title

AG 216  
Dept. and Course No.

### I COURSE DESCRIPTION:

This course is designed to prepare students for job entry in landscaping private homes, schools, hotels, government building and recreation areas. This course covers landscapes arts, style and design: identification of ornamental and landscape plants: nursery productions of ornamental plants: and landscape establishment and maintenance. Pre AG 122 and AG 124 (3 credits lec, 1 credit lab.)

### II SEMESTER CREDITS: 4

III CONTACTS HOURS PER WEEK:	<u>3</u>	<u>3</u>	<u>6</u>
	Lec	Lab	Total

### IV PREREQUISITE: AG 122 and AG 124

### 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. List the skills needed for landscape construction
3. Identify common landscaping tools and explain their proper use.
4. Propagate tropical ornamental plants and observe the practices of a successful nursery management.
5. Identify the principles of design and explain their application to landscaping.
6. Demonstrate the different ways of arranging plant materials.
7. Select and use the proper plant materials in the landscape.
8. Perform proper methods of installing trees and shrubs.

### VI COURSE CONTENT

- A. Landscaping as a Career
- B. Landscape Construction Skills
- C. Landscaping Tools
- D. Nursery Management
  1. Propagating Media
  2. Asexual Propagation
  3. Environmental Requirements:
    - a. Light
    - b. Moisture
    - c. Temperature
- E. Principles of Design
- F. Arranging Plant Materials
- G. Types of Trees and Shrubs
  1. Functions of Trees and Shrubs
  2. Types of Silhouette
- H. Installing Trees and Shrubs
  1. Transplanting
  2. Use of Mulches
  3. Fertilizing

#### 4. Post-transplant Care

9. Distinguish ground covers and vines and explain their uses in the landscape.

##### I. Ground Covers

1. Description
2. Usage
3. Types
4. Installing and Maintaining

10. Design a flower planting

##### J. Designing Flower Plantings

11. Describe how flower borders and flowerbeds can be used in landscaping.

##### K. Flower Beds and Flower Borders

12. Explain how grasses are being propagated, transplanted, and maintained.

##### L. Grasses and Turf

13. Describe the types of materials used for constructed landscape enclosures.

##### M. Enclosure Materials

14. Select a suitable natural or constructed surface material for a specific area.

##### N. Types of Surfacing Materials

15. Explain the types and uses of enrichment items in the landscape.

##### O. Natural and Man-Made Enrichment Items

16. Perform the practices of maintaining a landscape.

##### P. Maintaining the Landscape

1. Pruning Trees and Shrubs
2. Pruning Hedges
3. Care of the Lawn

17. Explain the major principles of starting a landscaping business.

##### Q. Landscaping as a Business

1. Forms of Business Organization
2. Fund Sources
3. Site Selection

#### VII. EQUIPMENT AND MATERIALS

- |                                  |                                 |
|----------------------------------|---------------------------------|
| A. Flower seeds                  | E. Transportation               |
| B. Fertilizer                    | F. Computer                     |
| C. Landscaping Tools & Equipment | G. Digital Camera               |
| D. Projectors                    | H. Standard Classroom Materials |

#### VIII. TEXT AND REFERENCES:

- A. Text  
Ingels, J.E. Landscaping: Principles and Practices. Delmar Publisher, Inc., New York, NY.1992.
- B. Reference  
Barden, J.A., R.G. Halfacre, and D.J. Parrish. Plant Science. McGraw-Hill, Inc., New York, NY. 1987.

#### 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 60% of the grade, while the laboratory will provide the other 40%.

<u>Lecture</u>	% of Grade
Participation	05%
Quizzes	15%
Tests	30%
Assignments	10%

<u>Laboratory</u>	
Participation	15%
Laboratory write-ups	10%
Project	15%
TOTAL	100%

The computation of letter grade is as follows:

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

# TASK LISTING SHEET

AG 216 Tropical Landscape Horticulture  
Course No. & Title

Credits:  $\frac{3}{\text{Lec}}$   $\frac{1}{\text{Lab}}$   $\frac{48}{\text{Total Lab Hrs}}$

TASK	TIME
<b>SLO #1-2</b>	3
1. Using activity worksheet, visit Resorts at Palau and make interviews to Supervisors and landscapers. Evaluate their job descriptions and qualifications.	
<b>SLO #3</b>	6
1. Using the different landscaping tools, identify and demonstrate their proper uses.	
<b>SLO #4</b>	12
1. Propagate tropical ornamental plants in the nursery following the proper nursery management	
<b>SLO #6-8</b>	12
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.	
<b>SLO #9-15</b>	6
1. Proceed to Palau Pacific Resort and Palau Royal Resort and make evaluation on the arrangements of flower plantings and turf grasses.	
2. Identify the types of surfacing materials, enclosure materials and enrichment items used in the landscape.	
3. Using activity worksheets make a landscape design following the proper plants setting.	
<b>Objectives #16</b>	9
1. Proceed to PCC landscaped areas and perform the practices of maintaining a landscape.	
<b>TOTAL LAB HOURS</b>	<b>48</b>

## Rubrics Form A

(Used for shop courses as well as other program courses)

### AG 216- TROPICAL LANDSCAPE HORTICULTURE

STUDENT NAME \_\_\_\_\_

Semester/Year: \_\_\_\_\_

INSTRUCTOR NAME \_\_\_\_\_

This record is intended to serve as a method of evaluating student achievement of the competencies in Agricultural Science Program.

Directions: Evaluate the student using the rating scale below and encircle the appropriate number to indicate the degree of competency. The numerical rating of 5, 4, 3, 2, and 1 are not intended to represent the traditional school grading system of A, B, C, D, and F. The description associated with each of the numbers focus on the level of student performance for each of the competencies listed below.

Rating Scale:   5       Excellent  
                  4       Above Average  
                  3       Average  
                  2       Below Average  
                  1       Unacceptable

COMPETENCIES	RATING	DATE
1. Propagate tropical ornamental plants and observe the practices of a successful nursery management	5 4 3 2 1	
2. Demonstrate the different ways of arranging plant materials	5 4 3 2 1	
3. Perform proper ways of installing trees and shrubs	5 4 3 2 1	
4. Describe how flower borders and flowerbeds are used in landscaping	5 4 3 2 1	
5. Design a flower planting	5 4 3 2 1	

5 4 3 2 1

I certify that the student has completed all the competencies in this course and has achieved an average rating as shown above.

\_\_\_\_\_  
INSTRUCTOR'S SIGNATURE

\_\_\_\_\_  
DATE



## COMPETENCY PROFILE ASSESSMENT

### AG 216- Tropical Landscape Horticulture

#### 1. Propagate tropical ornamental plants and observe the practices of a successful nursery management.

5	Propagate tropical ornamental plants and observes the practices of a successful nursery management with 90%-100% accuracy.
4	Propagate tropical ornamental plants and observes the practices of a successful nursery management with 80%-89% accuracy.
3	Propagate tropical ornamental plants and observes the practices of a successful nursery management with 70%-79% accuracy.
2	Propagate tropical ornamental plants and observes the practices of a successful nursery management with 65%-69% accuracy.
1	Propagates tropical ornamental plants and observes the practices of a successful nursery management with below 65% accuracy.

#### 2. Demonstrate the different ways of arranging plant materials.

5	Demonstrate the different ways of arranging plant materials with 90%-100% accuracy.
4	Demonstrate the different ways of arranging plant materials with 80%-89% accuracy.
3	Demonstrate the different ways of arranging plant materials with 70%-79% accuracy.
2	Demonstrate the different ways of arranging plant materials with 65%-69% accuracy.
1	Demonstrate the different ways of arranging plant materials with below 65% accuracy.

#### 3. Perform proper ways of installing trees and shrubs.

5	Perform proper ways of installing trees and shrubs with 90%-100% accuracy.
4	Perform proper ways of installing trees and shrubs with 80%-89% accuracy.
3	Perform proper ways of installing trees and shrubs with 70%-79% accuracy.
2	Perform proper ways of installing trees and shrubs with 65%-69% accuracy.
1	Perform proper ways of installing trees and shrubs with below 65% accuracy.

**4. Describe how flower borders and flower beds are used in landscaping.**

5	Describe how flower borders and flowerbeds are used in landscaping with 90%-100% accuracy.
4	Describe how flower borders and flowerbeds can be used in landscaping with 80%-89% accuracy.
3	Describe how flower borders and flowerbeds are used in landscaping with 70%-79% accuracy.
2	Describe how flower borders and flowerbeds are used in landscaping with 65%-69% accuracy.
1	Describe how flower borders and flowerbeds are used in landscaping below 64% accuracy.

**5. Design a flower planting.**

5	Design a flower planting with 90%-100% accuracy.
4	Design a flower planting with 80%-89% accuracy.
3	Design a flower planting with 70%-79% accuracy.
2	Design a flower planting with 65%-69% accuracy.
1	Designs a flower planting with below 54% accuracy.