

**ADLTED 748.2 Course Outline as of Fall 2025****CATALOG INFORMATION**

Dept and Nbr: ADLTED 748.2 Title: INTRO TO NURSERY OPER

Full Title: Introduction to Nursery Operations

Last Reviewed: 5/14/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0	Lecture Scheduled	0	8	Lecture Scheduled	0
Minimum	0	Lab Scheduled	3.00	4	Lab Scheduled	24.00
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	24.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 24.00

Title 5 Category: Non-Credit

Grading: Non-Credit Course

Repeatability: 27 - Exempt From Repeat Provisions

Also Listed As:

Formerly:

**Catalog Description:**

Introduction to plant propagation and production practices with emphasis on nursery operations.

**Prerequisites/Corequisites:****Recommended Preparation:**

Course Completion of ADED 744 ( or ADLTED 744)

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

Description: Introduction to plant propagation and production practices with emphasis on nursery operations. (Non-Credit Course)

Prerequisites/Corequisites:

Recommended: Course Completion of ADED 744 ( or ADLTED 744)

Limits on Enrollment:

Transfer Credit:

Repeatability: Exempt From Repeat Provisions

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>		Effective:	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

### **CID:**

### **Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Demonstrate an understanding of the environmental requirements necessary for plants to be reproduced in a nursery environment.
2. Describe the use and maintenance of common propagation and nursery techniques, tools, and equipment.

### **Objectives:**

At the conclusion of this course, the student should be able to:

1. Describe principles of plant reproduction
2. Demonstrate plant propagating methods including seed, cuttings, layering, division
3. Describe proper timing for various propagation and production techniques
4. Use a recipe to create a propagating media
5. Measure and mix fertilizers and apply them following label directions
6. Identify, use, and maintain common propagation, nursery tools and equipment
7. Describe various types of wholesale plant production industries in Sonoma and California

### **Topics and Scope:**

#### I. Wholesale Plant Production Operations

#### II. Introduction to Plant Environmental Requirements

- A. Light
- B. Temperature
- C. Water
- D. Air
- E. Root attachment
- F. Mineral nutrition
- G. Photoperiodism

#### III. Plant Propagation

- A. Methods and types of propagation and reproduction
- B. Use and maintenance of common propagation and nursery tools and equipment

#### IV. Cuttings

#### V. Grafting and Budding

#### VI. Considerations of Nursery Stock Production

- A. Planting media
- B. Fertilizing and watering
- C. Planting and transplanting
- D. Pruning, pinching, disbudding
- E. Chemical growth regulation
- F. Controlling insect and disease pests of nursery stock
- G. Preparation of stock for sale

#### VII. Nursery Equipment

- A. Safety considerations
- B. Care and maintenance

#### Assignment:

1. Create a poster or digital media project showing plant environmental requirements
2. Mix three or more types of planting media
3. Propagate plants from seeds or cuttings (3 to 5)
4. Propagate plants from cutting or buds (3 to 5)
5. Oral presentation describing characteristics of one common nursery plant

#### 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.

None

Writing  
0 - 0%

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

Poster or digital media project

Problem solving  
20 - 30%

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

Propagating and grafting exercises; mixing planting media

Skill Demonstrations  
30 - 40%

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

None

Exams  
0 - 0%

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

Oral presentation; attendance and active participation

Other Category  
30 - 40%

**Representative Textbooks and Materials:**

Instructor prepared materials