

**VIT 123 Course Outline as of Spring 2009****CATALOG INFORMATION**

Dept and Nbr: VIT 123 Title: SPRING BUD &amp; GRAFT

Full Title: Spring Budding &amp; Grafting

Last Reviewed: 9/27/2021

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0.50	Lecture Scheduled	9.00	1	Lecture Scheduled	9.00
Minimum	0.50	Lab Scheduled	0	1	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	9.00		Contact Total	9.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 18.00

Total Student Learning Hours: 27.00

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

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

Also Listed As:

Formerly: AG 281.10

**Catalog Description:**

Spring season budding and grafting. Covers methods used to graft over rootstocks and in existing vineyards.

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

Eligibility for ENGL 100 or ESL 100

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

Description: Spring season budding and grafting. Covers methods used to graft over rootstocks and in existing vineyards. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

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

## **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:
<b>CID:</b>			

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

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

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

1. Differentiate between sexual and asexual propagation.
2. Compare and contrast various grapevine propagation methods.
3. Discuss the purpose of budding and grafting for vineyard production.
4. Describe various budding and grafting methods used to graft over rootstocks or existing vineyards and discuss the advantages and disadvantages of each.
5. Describe the physiology and morphology of internal and external budwood structures.
6. Determine compatibility of vine and rootstock to avoid grafting failure.
7. Store and sanitize budwood.
8. Properly prepare rootstocks and vines for budding and grafting.
9. Practice appropriate post grafting plant care.

### **Topics and Scope:**

- I. Grapevine Propagation
  - A. Sexual
  - B. Asexual
- II. Overview of Grapevine Propagation Methods
- III. Purpose of Budding and Grafting
- IV. Budding and Grafting Methods
  - A. Field budding
  - B. "T" budding
  - C. Grafting
  - D. Bench grafting
  - E. Advantages and disadvantages of each method
- V. Budwood
  - A. Physiology and morphology of budwood
    1. External structure

- 2. Internal structure
- B. Collection
- C. Sanitation
- D. Storage
- E. Certified budwood vs. field selections
- VI. Incompatibility Concerns
  - A. Genetic
  - B. Virus diseases
  - C. Fungal diseases
- VII. Preparation for Grafting and Budding
  - A. Timeliness
  - B. Irrigation
  - C. Fertilization
- VIII. Post Grafting Care
  - A. Irrigation
  - B. Fertilization
  - C. New shoots training
- IX. Demonstration in the Vineyard

**Assignment:**

Assignments may include:

1. Compile field notes from vineyard demonstrations.
2. Reading: 10-25 pages.
3. 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.

Field notes.	Writing 30 - 40%
<p><b>Problem Solving:</b> Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.</p>	
None	Problem solving 0 - 0%
<p><b>Skill Demonstrations:</b> All skill-based and physical demonstrations used for assessment purposes including skill performance exams.</p>	
None	Skill Demonstrations 0 - 0%
<p><b>Exams:</b> All forms of formal testing, other than skill performance exams.</p>	
Multiple choice, True/false, Matching items, Completion, Short answer.	Exams 60 - 70%

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

Participation and attendance.

Other Category  
0 - 10%

**Representative Textbooks and Materials:**

Instructor prepared materials.