

**VIT 132 Course Outline as of Fall 2015****CATALOG INFORMATION**

Dept and Nbr: VIT 132

Title: ADVANCES IN VINEYARD IPM

Full Title: Advances in Vineyard Integrated Pest and Disease Management

Last Reviewed: 9/13/2021

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0.50	Lecture Scheduled	0.50	17.5	Lecture Scheduled	8.75
Minimum	0.50	Lab Scheduled	0	2	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	0.50		Contact Total	8.75
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 17.50

Total Student Learning Hours: 26.25

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:

**Catalog Description:**

This course encompasses critical evaluation and discussion of selected viticulture, plant pathology and entomology research papers. The papers will be recent publications in peer-reviewed journals. The intent is to broaden student experience and perspective beyond textbooks for understanding of new pest and disease management practices.

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

Eligibility for ENGL 100 or ESL 100

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

Description: This course encompasses critical evaluation and discussion of selected viticulture, plant pathology and entomology research papers. The papers will be recent publications in peer-reviewed journals. The intent is to broaden student experience and perspective beyond textbooks for understanding of new pest and disease management practices. (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:

**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Student Learning Outcomes:**

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

1. Upon completion of this course, the student will be able to:
  - 1) Read and comprehend current plant pest and disease research publications.
  - 2) Synthesize and summarize contemporary integrated pest and disease management issues.
  - 3) Incorporate the latest pest and disease management findings into vineyard management decisions when appropriate.

### **Objectives:**

Upon successful completion of this course, the student will be able to:

1. Read and comprehend vine pathology and entomology research publications.
2. Discuss new concepts regarding pest and disease control.
3. Summarize key points in a vine pathology and/or entomology research article from a peer-reviewed journal.
4. Evaluate the theories underlying the research.
5. Identify resources/locations for finding the latest vine pathology and entomology research publications.
6. Evaluate the appropriateness of integrating research findings into a specific vineyard site management plan.

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### **Topics and Scope:**

- I. Overview of research paper format
  - A. Abstract
  - B. Introduction / Literature review
  - C. Materials and methods
  - D. Results

- E. Presentation of the data
  - 1. Tables
  - 2. Figures
  - 3. Statistics
- F. Discussion
- G. Conclusion
- H. References
- II. Examples of contemporary vineyard issues
  - A. Genetically modified grapevines for disease and pest control
  - B. Soil microorganisms that can prevent vine disease
  - C. Pest and disease control methods without the use of pesticides and/or chemicals
  - D. Organic viticulture practices and regulations
  - E. Biodynamic viticulture
  - F. Hyperparasitism
  - G. Development and testing of new beneficial insects
  - H. New concepts and topics recently published for repeatability

### Assignment:

1. Reading (15-20 pages/week)
2. Written summary of research papers (3-5 pages each). The student will write an abstract for each of the four publications, highlighting the important points and including key words.
3. Develop a list of questions for each research publication
4. Exams

### 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.

Summaries; questions for each paper

Writing  
45 - 60%

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

None

Problem solving  
0 - 0%

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

None

Skill Demonstrations  
0 - 0%

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

Midterm and final exam: matching items, Short answer; fill-in

Exams  
15 - 25%

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

Participation and discussion
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Other Category 20 - 30%
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**Representative Textbooks and Materials:**

Instructor prepared materials

Representative journals:

Journal of Plant Pathology

Journal of Applied Entomology

Biodynamic Farming and Gardening Journal

Agriculture, Ecosystems and Environment

Ecological Entomology

Australian Journal of Experimental Agriculture

Ecological Applications

American Journal of Alternative Agriculture

Australasian Plant Pathology

Journal of Soil Ecology

Applied Soil Ecology