VIT 133 Course Outline as of Spring 2008

# **CATALOG INFORMATION**

Dept and Nbr: VIT 133 Title: ADVANCES IN VITICULTURE Full Title: Advances in Viticulture Last Reviewed: 5/8/2023

Units		Course Hours per Week		Nbr of Weeks	<b>Course Hours Total</b>	
Maximum	1.00	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	1.00	Lab Scheduled	0	5	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	1.00		Contact Total	17.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 52.50

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 short course encompasses critical evaluation and discussion of selected viticultural research papers. The papers will be recent publications in peer-reviewed journals. The intent is to broaden student perspective beyond textbooks for understanding the most current vineyard practices that aim for efficiency and fruit quality improvement.

## **Prerequisites/Corequisites:**

**Recommended Preparation:** Eligibility for ENGL 1A or equivalent

## **Limits on Enrollment:**

## **Schedule of Classes Information:**

Description: This short course encompasses critical evaluation and discussion of selected viticultural research papers. The papers will be recent publications in peer-reviewed journals. The intent is to broaden student perspective beyond textbooks for understanding the most current vineyard practices that aim for efficiency and fruit quality improvement. (Grade or P/NP) Prerequisites:

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

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

CID:

## **Certificate/Major Applicable:**

Both Certificate and Major Applicable

# **COURSE CONTENT**

## **Outcomes and Objectives:**

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

- 1. Read and comprehend viticultural research publications.
- 2. Discuss new concepts regarding quality winegrape growing.
- 3. Summarize key points in a viticultural research article from a peerreviewed journal.
- 4. Evaluate the theories underlying the research.
- 5. Identify resources/locations for finding the latest viticultural research publications.
- 6. Evaluate the appropriateness of integrating research findings into a specific vineyard site.

## **Topics and Scope:**

- I. Overview of how to read a research paper
  - 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. Deficit irrigation techniques

- B. Relationship between soil chemistry and winegrape quality
- C. Genetically modified grapevines for new cultivar and rootstock development
- D. Biodynamic viticulture
- E. Evaluation and assessment of wine grape quality
- F. On-site weather stations and using sensors in the vine canopy
- G. NDVI Normalized Differential Vegetative Index
- H. GIS Geographical Information Systems
  - 1. Data collection
  - 2. Database management
  - 3. Vineyard decision making based on GIS data

#### 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

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

None

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

None

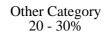
**Exams:** All forms of formal testing, other than skill performance exams.

Matching items, Short answer; fill-in

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

Participation

	Writing
	45 - 60%
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	Problem solving
	0 - 0%
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g skill	
	Skill Demonstrations
	0 - 0%
	Exams
	15 - 25%



Representative Textbooks and Materials: Instructor prepared materials Representative journals: American Journal of Enology and Viticulture Australian Journal of Grape and Wine Research Australian and New Zealand Grapegrower and Winemaker Wine Business Monthly Practical Winery and Vineyard Oecologia American Journal of Horticultural Science