

VIT 133 Course Outline as of Fall 2017**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		Course Hours Total	
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/Corequisites:

Recommended: Eligibility for ENGL 1A or equivalent

Limits on Enrollment:

Transfer Credit:

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

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:

IGETC:	Transfer Area	Effective:	Inactive:
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CSU Transfer:	Effective:	Inactive:
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UC Transfer:	Effective:	Inactive:
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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. Analyze current viticultural research publications.
2. Synthesize and evaluate contemporary viticultural theories and issues.
3. Incorporate the latest viticultural findings into vineyard management decisions when appropriate.

Objectives:

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

1. Discuss new concepts regarding quality winegrape growing.
2. Summarize key points in a viticultural research article from a peer-reviewed journal.
3. Evaluate the theories underlying the research.
4. Identify resources/locations for finding the latest viticultural research publications.
5. 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

- I. Accessing peer reviewed journals
- II. Examples of Contemporary Vineyard Issues May Include:
 - 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 including use of drones

Assignment:

1. Reading (15-20 pages/week)
2. Written abstracts of four research papers (3-5 pages each)
3. Class discussions on research topics
4. Develop a list of questions for each research publication
5. Mid-term and/or 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.

Summaries; questions for each publication	Writing 45 - 60%
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Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None	Problem solving 0 - 0%
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Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None	Skill Demonstrations 0 - 0%
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Exams: All forms of formal testing, other than skill performance exams.

Mid-term and/or final exam. Matching items, short answer, fill-in.	Exams 15 - 25%
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Other: Includes any assessment tools that do not logically fit into the above categories.

Participation in class discussions

Other Category
20 - 30%

Representative Textbooks and 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

Oecologia

American Journal of Horticultural Science