

Discipline: Agriculture	Sub-discipline: Wine Education/Enology
General Course Title: Laboratory Analysis of Wines	Min. Units: 3 Semester
Proposed Suffix: L	
<p>Course Description: An introduction to vineyard and winery laboratory practices to include basic chemistry principles, laboratory techniques and commonly used analysis methods for musts and wines. Lab fee will be assessed.</p>	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> • Understand the basic laboratory principles used in the wine industry. • Utilize basic chemistry principles. • Utilize basic microbiology principles. • Perform the common laboratory tests used in the wine industry. • Perform the common microbial assays used in the wine industry. 	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Basic Chemistry Theory 2. Basic Laboratory Skills 3. Total Acidity Determination pH 4. Sulfur Dioxide Measurement 5. Sugar Determination 6. Alcohol Determination 7. Paper Chromatography 8. Carbon Dioxide Determination 9. Volatile Acidity Measurement 10. Microbiological Techniques 11. Spectrophotometer Measurements 	
Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.	
<p>Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers</p>	<p>Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Reports Diagnoses and Problem Solving Laboratory Skill Practicum Certification Exams</p>
Typical Textbooks, Manuals, or Other Support Materials Under Review	
FDRG Lead Signature:	Date:

¹ Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

² Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

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Internal Tracking Number