

Discipline: Agriculture	Sub-discipline: Viticulture
General Course Title: Viticultural Practices Spring	Min. Units: 3 Semester
Proposed Suffix: L	
<p>Course Description: Viticulture practices for the spring and summer season including planning and planting a new vineyard, pest control, soils, frost control, irrigation practices, quality control measures and vineyard equipment use.</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"> • Describe the steps in selecting rootstocks and planting the vineyard. • Demonstrate proper training techniques for young vines. • Explain grapevine physiology and anatomy. • Describe the theory and practices associated with vineyard management. • Explain how climate, soils and vineyard practices affect weed, insects, and diseases. • Identify appropriate soil types and fertilizer techniques for vineyards. • Explain tissue analysis, sample collection and interpretation of the results. • Identify common vineyard insects, weeds and diseases. • Explain the different theories of vine pruning. • Identify common methods of vineyard frost control. 	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Rootstocks and Planting <ol style="list-style-type: none"> A. Rootstocks used B. Planting techniques and spacing C. Trellis systems for new grape plantings 2. Pruning and Training Young Vines <ol style="list-style-type: none"> A. Dormant season training of young vines B. Theoretical aspects of pruning C. Pruning mature grapevines D. Training young vines after budbreak 3. Grapevine Anatomy and Physiology <ol style="list-style-type: none"> A. Winegrape, table grape and raisin cultivars B. Internal and external structures C. Photosynthesis and its relationship to cultural techniques 4. Soils and Fertilizers <ol style="list-style-type: none"> A. Soil texture, structure and characteristics B. Fertilizer needs C. Fertilizer application techniques and equipment <p>Viticultural Practices Spring (Content Continued)</p> <ol style="list-style-type: none"> 5. Pest Control <ol style="list-style-type: none"> A. Insect identification and control measures B. Weed identification and control techniques C. Diseases of grapevines identification and control D. Glassy winged sharpshooter 	

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.

- E. Powdery mildew control
 - F. Integrated pest management
6. Irrigation theory and practice
 - A. Water needs of grapevines
 - B. Irrigation system selection and installation
 - C. Drip irrigation versus other systems
 7. Techniques of frost control
 - A. Mechanical Methods
 - B. Cultural Methods
 8. Vineyard Development
 - A. Site selection
 - B. Natural resources, habitat and environmental concerns
 - C. Vineyard design - trellises and irrigation systems
 - D. Installation and planting
 9. Farming an Established Vineyard
 - A. Vineyard practices during the cycle of vine growth
 - B. Canopy management
 - C. Vine mineral nutrition
 - D. Sustainable agricultural practices
 - E. Methods to improve grape quality
 - F. Vineyard Floor Management

Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.

Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers	Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Projects and Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams
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Typical Textbooks, Manuals, or Other Support Materials
Viticulture, Vol. 2 Practices, Coombe & Dry, 1992.
Grapevine Physiology, UCDANR, 1981.
Sunlight into Wine, R. Smart and M. Robinson, 1991.
General Viticulture, Winkler, A.J., Kliwer, W.M., 1974.

Statewide Articulation: UCD-VEN 101 ABC, other universities as lower division elective

FDRG Lead Signature: _____ Date: _____

Mark E. Bender, PhD CSU Stanislaus

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