

Discipline: Agriculture	Sub-discipline: Viticulture
General Course Title: Grapevine Canopy Management and Trellising	Min. Units: 1 Semester
Proposed Suffix:	
Course Description: An introduction to trellising options for wine grape production. Principles and practices of canopy management are covered, focusing on improvement of wine grape quality.	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
Course Objectives: <i>At the conclusion of this course, the student should be able to:</i> <ul style="list-style-type: none"> • Define and give examples of grapevine canopy management techniques • Compare and contrast various grapevine trellis support systems • Explain how and why effective canopy management can improve winegrape quality • Use the vineyard score card to assess canopy practices • Compare trellising configurations 	
Course Content: <ol style="list-style-type: none"> 1. Introduction to the Grapevine Canopy and Fruit Zone <ol style="list-style-type: none"> A. Definitions and vocabulary B. Review of grapevine phenology C. Goals of canopy management 2. Concept of vine balance <ol style="list-style-type: none"> A. Site vigor potential and its components B. Fruit to pruning weight ratios C. Dense vs. Open Canopies 3. Importance of Sunlight <ol style="list-style-type: none"> A. Leaf exposure B. Fruit exposure C. Bud exposure D. Influence of microclimate on vine productivity 4. Canopy Configuration <ol style="list-style-type: none"> A. Single curtain B. Double curtain C. Influence of training/trellis system on vine growth 5. Trellis Types <ol style="list-style-type: none"> A. Vertical split B. Horizontal split C. Shoot positioning versus non-shoot positioning D. Retro-fitting 6. Canopy Assessment Practices <ol style="list-style-type: none"> 1. Vineyard Score Card 2. Shoots / meter Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.	
Methods of Evaluation: Lecture Comprehensive Quizzes and Exams	Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation

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.

Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers	Laboratory Projects and Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams
Typical Textbooks, Manuals, or Other Support Materials <u>Sunlight Into Wine: A Handbook for Winegrape Canopy Management</u> , R. Smart & M. Robinson, 1991. Winetitles, Adelaide, South Australia. <u>Practical Aspects of Grapevine Trellising</u> , M. Mollah, 1997. Winetitles, Adelaide, South Australia.	
Statewide Articulation: Transfers as lower division elective	
FDRG Lead Signature:	Date:
Mark E. Bender, PhD CSU Stanislaus	
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