

## Department:

Viticulture and Enology

## Course Description:

This course is designed to provide practical experience in winter vineyard operations for students already initiated in the field of viticulture. Students are required to partner with an approved vineyard to participate in the required field experience portion of the course which will serve as work experience for those seeking employment in commercial viticulture. A minimum of 30 hours of field practicum are required along with a daily journal of practical experiences.

## Course Competencies:

Upon completion of the course, the student should be able to:

1. Identify different parts of the grapevine.
2. Describe the sequence of growth events through growing and dormant seasons.
3. Describe the annual and perennial growth cycles.
4. Accurately identify one season old wood, diseased wood, live and dead buds, and basal buds.
5. Identify three vine tying systems.
6. Perform bud counts on single vines.
7. Position renewal spurs and properly space fruiting spurs.
8. Properly tie cordons.
9. Explain the concept of balanced pruning.
10. Calculate the number of buds to retain based on pruning weight and the appropriate balanced pruning formula for the variety being pruned.
11. Prune vines using the results of appropriate balanced pruning formula.
12. Perform bench trial propagation of preferred varieties.
13. Produce a minimum of six rooted cuttings.
14. Identify the major spring pest concerns at the vineyard site.
15. Describe early season pest management strategies at the vineyard site.
16. Identify and describe major fungal diseases in a given location.
17. List and demonstrate the steps used in sprayer calibration.
18. Design a checklist of tasks required for proper trellis maintenance.
19. Perform or describe the tasks required for trellis maintenance at the vineyard site.

## Course Content:

- A. Wine Grape Canopies and Their Importance
- B. Quality Assurance in Vineyards
- C. Improving Canopy Microclimate

- D. Canopy Management
- E. Improved Trellis Systems
- F. The Economics of Canopy Management
- G. Common Questions About Canopy Management
- H. Constructing Trellis Systems

### Learning Assessments:

Course competencies will be assessed by use of portfolios and presentations, written examinations, laboratory and field observations, class projects and activities, active participation in course dialog and scholarly activities including discovery, application, and integration.

### Instructional Materials:

Sunlight into Wine: A Handbook for Winegrape Canopy Management, Smart, Robinson, Winetitles, 2003 ISBN: 9781875130108.

#### **Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition**

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the "Disabilities Self-Identification Form" at this link: <https://highlandcc.edu/pages/disability-services>.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.