

Department:

Viticulture and Enology

Course Description:

This course will explore soil properties and behavior and their influence on wines. The course focuses not only on growth and production, but also on the long-term effects of viticulture on soil quality and the wider environment.

Course Competencies:

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

1. Summarize the relationship of soils and the environment.
2. Describe the makeup of soil.
3. Explain the vine root habitat.
4. Explain the basic concepts of soil fertility and chemistry.
5. Explain how the soil supplies nutrients.
6. Describe the primary nutrients in soil.
7. Describe secondary and micronutrients in soil.
8. List and describe nutrients necessary for healthy vines and good wines.
9. Demonstrate soil testing and interpretation of results.
10. Summarize the relationship of plant nutrients and the environment.
11. Describe soil-water-vine relationships and water management.
12. Explain the importance of water quality in vineyards.
13. Explain the basic concepts of site selection and soil preparation.
14. Describe various soil and wine regions.

Course Content:

- A. Soil and the Environment
- B. The Makeup of Soil
- C. The Vine Root Habitat
- D. How the Soil Supplies Nutrients
- E. Nutrients for Healthy Vines and Good Wines
- F. Soil/Water/Vine Relationships and Water Management
- G. Soil Quality in Vineyards
- H. Site Selection and Soil Preparation
- I. Soil and Wine

Learning Assessments:

Students will be evaluated using 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:

Soils for Fine Wines, White, Oxford University Press, 2003 ISBN 0195141024

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.