

Department:

Viticulture and Enology

Course Description:

This course is designed to provide practical experience in summer/fall vineyard operations. Coursework will focus on fundamental viticulture issues related to the grape maturation process. Students will be introduced to the knowledge and practical skills required to control and monitor grape berry growth and development as it relates to successful commercial production of grapes adapted to the continental climate of the Eastern United States.

Course Competencies:

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

1. Identify and describe vine anatomy.
2. List and describe bud and shoot stages.
3. Identify proper vine training and canopy management procedures.
4. Identify major grape pests and understand pest management strategies.
5. Quantify canopy quality parameters.
6. Quantify vine vigor and vine balance.
7. Perform random samples on representative number of vines to predict crop yield and maintain vine balance.
8. Monitor grape berry development.
9. Describe and demonstrate the process of collecting a representative fruit sample for harvest parameters.
10. Perform analysis of soluble solids, titratable acidity, and pH of field collected grape sample.
11. Perform scouting to identify vineyard pest issues.
12. Monitor vineyard for fruit damage/rot; identify source and severity of damage.
13. Adjust late season pest management strategies according to grape ripening and projected harvest date.
14. Communicate with winery regarding harvest parameters.
15. Participate in a harvest operation.
16. Participate in a crush operation.
17. Demonstrate proper post-harvest monitoring including irrigation, pest management, soil sampling, fertility plan, winterizing equipment, and record-keeping.
18. Produce a harvest plan.

Course Content:

- A. Wine Grape Canopies
- B. Canopy Management
- C. Nutrient and Water Management
- D. Integrated Pest Management
- E. Crop Estimation
- F. Grape Berry Development
- G. Harvest

H. Post-harvest Vineyard Operations

Learning Assessments:

Competencies may be evaluated by multiple measures, including written examinations, laboratory and field observations, article reviews, class projects and presentations, and active participation in harvest operations.

Instructional Materials:

Dami, I., Bordelon, B., Ferree, D. C., Brown, M., Ellis, M. A., Williams, R. N., & Doohan, D. (2005). ***Midwest Grape Production Guide***. Bulletin 919. Publisher: Ohio State University Extension.

ASIN: B002SE1E6K. This is a free download at:

https://plantpathology.ca.uky.edu/files/mw_grape_productn_b919.pdf

Goldammer, T. (2018). ***Grape Grower's Handbook: A Guide to Viticulture for Wine Production*** (Third Edition). Apex Publishers. Centreville, VA. ISBN: 978-0-9675212-5-1

Wolf, T. K. (2008). ***Wine Grape Production Guide for Eastern North America***. Natural Resource, Agriculture & Engineering Service (NRAES) Cooperative Extension. ISBN-13: 978-19-3339-512-8.

This is a free download at: <https://ecommons.cornell.edu/handle/1813/67189>

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" on our [Disability Services website](#).

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.

A Note on Harassment, Discrimination and Sexual Misconduct

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an [online report](#) about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our [Equity Grievance Policy](#).