

VWT-229: SUMMER VINEYARD OPERATIONS

Effective Term

Fall 2025

CC Approval

01/21/2025

AS Approval

02/13/2025

BOT Approval

02/20/2025

COCI Approval

05/15/2025

SECTION A - Course Data Elements

CB04 Credit Status

Credit - Degree Applicable

Discipline

Minimum Qualifications	And/Or
Agricultural Production (Any Degree and Professional Experience)	

Subject Code

VWT - Viticulture and Winery Technology

Course Number

229

Department

Viticulture and Winery Technology (VWT)

Division

Career Education and Workforce Development (CEWD)

Full Course Title

Summer Vineyard Operations

Short Title

Summer Vineyard Operations

CB03 TOP Code

0104.00 - *Viticulture, Enology, and Wine Business

CB08 Basic Skills Status

NBS - Not Basic Skills

CB09 SAM Code

C - Clearly Occupational

Rationale

Summer vineyard operations are a critical for achieving and maintaining vine health and grape quality.

SECTION B - Course Description

Catalog Course Description

Vineyard practices for the summer season. This class will operate in the NVC Student Vineyard, with an emphasis on the practical applications of viticulture theory.

SECTION C - Conditions on Enrollment

Open Entry/Open Exit

No

Repeatability

Not Repeatable

Grading Options

Letter Grade or Pass/No Pass

Allow Audit

Yes

Requisites

SECTION D - Course Standards

Is this course variable unit?

No

Units

1.00

Lecture Hours

12.00

Activity Hours

12.00

Outside of Class Hours

30

Total Contact Hours

24

Total Student Hours

54

Distance Education Approval

Is this course offered through Distance Education?

Yes

Online Delivery Methods

DE Modalities	Permanent or Emergency Only?
Hybrid	Permanent

SECTION E - Course Content

Student Learning Outcomes

Upon satisfactory completion of the course, students will be able to:	
1.	Perform and explain basic vineyard operations for the summer season.
2.	Demonstrate skills required in the workplace.

Course Objectives

Upon satisfactory completion of the course, students will be able to:	
1.	Plan and implement a canopy management program.
2.	Assess the risk of insect and disease problems.
3.	Evaluate the need for supplemental irrigation.

4. Estimate crop yields.
5. Evaluate the need for crop level adjustment. Plan and perform crop thinning when needed.
6. Discuss the timing and significance of veraison in the development of grapes.
7. Plan and implement a program to control bird damage to fruit.
8. Explain the risks associated with summer vineyard work including pesticide and heat exposure.
9. Plan operations in order to minimize risks associated with summer vineyard work.

Course Content

1. Canopy management
2. Insect population evaluation
3. Control programs for insect damage prevention
4. Disease incidence evaluation
5. Control programs for disease damage prevention
6. Minimization and control of the risks associated with pesticides
7. Irrigation theory
8. Irrigation system operation
9. Bird population evaluation
10. Control programs for bird damage prevention
11. Other summer viticulture operations as needed
12. Yield estimation
13. Yield adjustments
14. Berry development phases and their significance
15. How to recognize phases of berry development
16. Veraison- identification and significance
17. Risks of heat to vineyard personnel, fruit quality and vine health

Methods of Instruction

Methods of Instruction

Types	Examples of learning activities
Activity	Leaf pulling demonstration and practice.
Activity	Cluster counting for yield estimation.

Instructor-Initiated Online Contact Types

Announcements/Bulletin Boards
 Chat Rooms
 Discussion Boards
 E-mail Communication
 Telephone Conversations
 Video or Teleconferencing

Student-Initiated Online Contact Types

Chat Rooms
 Discussions
 Group Work

Course design is accessible

Yes

Methods of Evaluation

Methods of Evaluation

Types	Examples of classroom assessments
Homework	Crop estimation: Estimate final crop yield using data obtained in the vineyard.
Class Participation	Participation in vineyard operations.

Assignments

Reading Assignments

Assigned readings (example: "The Three Most Common Methods for Measuring Vine Water Stress" from Practical Vineyard and Winery Journal).

Writing Assignments

Problem Solving:

Using collected data, estimate the final yield of a given set of vines.

Other Assignments

Thin excess fruit from a vine canopy. Decide how much fruit is removed and which clusters or cluster sections are thinned. Evaluate impact on vine balance, canopy light and disease pressure.

SECTION F - Textbooks and Instructional Materials

Material Type

Textbook

Author

Bryan Coombe and Peter Dry

Title

Viticulture Volume 2 - Practices

Edition/Version

2ND

Publisher

Winetitles

Year

2006

Rationale

Classic text, lack of current textbooks on subject matter

Course Codes (Admin Only)

ASSIST Update

No

CB10 Cooperative Work Experience Status

N - Is Not Part of a Cooperative Work Experience Education Program

CB11 Course Classification Status

Y - Credit Course

CB13 Special Class Status

N - The Course is Not an Approved Special Class

CB23 Funding Agency Category

Y - Not Applicable (Funding Not Used)

CB24 Program Course Status

Program Applicable

Allow Pass/No Pass

Yes

Only Pass/No Pass

No