Syllabus

VIT 200 Vineyard Management

General Information

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Department
Environmental Conservation and Horticulture

Course Prefix
VIT

Course Number
200

Course Title
Vineyard Management

Course Information

Credit Hours
3

Lecture Contact Hours
3

Lab Contact Hours
0

Other Contact Hours
0

Catalog Description
This course is designed for students already familiar with the basics of viticulture. Lecture topics covered will include integrated pest management, canopy management, foliar sampling, sustainable management practices, and how cropping systems affect vine vigor. Labor management and grape contracts will be discussed. A team sustainability project will be completed focusing on a sustainability issue pertinent to the Finger Lakes wine growing region. A site selection project will be completed by evaluating and theoretically developing a real site for its potential as a vineyard.

Key Assessment
This course does not contain a Key Assessment for any programs

Prerequisites
VIT 105

Co-requisites
None

Grading Scheme
Letter

First Year Experience/Capstone Designation

This course DOES NOT satisfy the outcomes applicable for status as a FYE or Capstone.

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category
None

FLCC Values

Institutional Learning Outcomes Addressed by the Course

- Vitality
- Inquiry
- Perseverance
- Interconnectedness

Course Learning Outcomes

Course Learning Outcomes

1. Prepare a management action plan for a vineyard while considering predicted and hypothetical water relations, nutrient availability, and pest pressure

2. Manage and evaluate a canopy microclimate for efficient sunlight interception and airflow appropriate to site and variety characteristics

3. Critically evaluate and report on sustainable practices for a specific aspect of viticulture in the Finger Lakes

4. Analyze different spraying technologies to minimize drift and maximize spray effectiveness

Outline of Topics Covered

1. Vineyard Economics
   a. Marketing
b. Contracts

2. GIS
   a. Uses in design
   b. Uses in management

3. Hydrological cycles in vineyards
   a. Irrigation
   b. Drainage

4. Nutrition
   a. Pre-plant preparation
   b. Organic
   c. Conventional

5. Canopy Management
   a. Balance Pruning
   b. Efficient Sunlight interception
   c. Trellis planning
   d. Trellis implementation

6. Other issues in the vineyard
   a. Safety
   b. Health

7. Sustainability
   a. Vineyard Topics as assigned

8. Site Evaluation
   a. terrain
   b. soils
   c. Climate

9. Cover crops with grapes
   a. Site preparation
   b. Establishment
   c. Variety of seed

10. Vineyard Design
    a. Layout
    b. Planning
c. Execution

11. Vineyard Systems
   a. Erosion
   b. Residual chemicals
   c. vineyard wastes
   d. nutrients

12. Integrated Pest Management
   a. Disease
   b. Insect
   c. Weeds