Syllabus

VIT 105 Basic Viticulture Techniques

General Information

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Department
Environmental Conservation and Horticulture

Course Prefix
VIT

Course Number
105

Course Title
Basic Viticulture Techniques

Course Information

Credit Hours
3

Lecture Contact Hours
2

Lab Contact Hours
2

Other Contact Hours
0

Catalog Description
This course is designed to introduce students to current techniques used while managing a commercial vineyard. Students completing this class will understand how to maintain appropriate vigor and productivity of a vineyard once it is established. Topics covered include: site analysis; varietal selection; trellising methods; nutrient needs of vines; diseases and insect pests of grapevines; crop regulation; breeding; grafting; vineyard floor management; and harvest determinations. A significant portion of the class will be dedicated to pruning. Viticulture safety issues will be addressed.

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

Prerequisites
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. Differentiate grapevine parts and phenological growth stages.

2. Differentiate between major training and trellising techniques, while explaining characteristics that result in selecting appropriate training and trellising systems.

3. Describe grapevine breeding and/or propagation techniques.

4. Interpret grapevine needs while balance pruning.

Outline of Topics Covered

I. Anatomy and Growth Cycle
   a. Grapevine structure
   b. Phenology
II. Tractor driving safety training
   a. PTO Safety
   b. Pre-operational checks
   c. Driving the tractor

III. Cultivars of grapevine
   a. Natives
   b. Hybrids
   c. Vinifera

IV. Training systems
   a. Upright systems
   b. Downward growth systems

V. Pruning
   a. Balance pruning

VI. Grapevine Nutrition
   a. Needs
   b. Deficiencies

VII. Grapevine diseases
   a. Viruses
   b. Fungi and mildews
   c. Bacteria

VIII. Insect pests of grapevines
   a. Dormant
   b. Early season
   c. Late season

IX. Grapevine breeding
   a. Phenotypical differences between grapevines
   b. Genological differences between grapevines

X. Grapevine nurseries
   a. Propagation
   b. Grafting

XI. Vineyard floor
   a. Row middles
b. Under vine

XII. Vineyard trellis
   a. Construction
   b. Maintenance

XIII. Vineyard Establishment
   a. Site prep
   b. Year 0-5

XIV. Harvest determination
    a. Phonological ripeness vs. harvest decision