General Information

Date
08/19/2016

Department
Environmental Conservation & Horticulture

Course Prefix:
VIT

Course Number:
105

Course Title:
Basic Viticulture Techniques

Course Information

Credit Hours
3

Lecture Contact Hours
3

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.

Grading Scheme
Letter Grade

FLCC Values

College Learning Outcomes Addressed by the Course

Inquiry
Interconnectedness
Vitality
Perseverance

Course Learning Outcomes
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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.

Program Affiliation

This course is required as a core program course in the following program(s)

- AAS Viticulture and Wine Technology - Main Track
- AAS Viticulture and Wine Technology - Viticulture Track
- AAS Viticulture and Wine Technology - Enology Track

Outline of Topics Covered
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VIT 105 Outline of Topics Covered:
1. Anatomy and Growth Cycle
   a. Grapevine structure
   b. Phenology
2. Cultivars of grapevine
   a. Natives
   b. Hybrids
   c. Vinifera
3. Training systems
   a. Upright systems
   b. Downward growth systems
4. Pruning
   a. Balance pruning
5. Grapevine Nutrition
   a. Needs
   b. Deficiencies
6. Grapevine diseases
   a. Viruses
   b. Fungi and mildews
   c. bacteria
7. Insect pests of grapevines
   a. Dormant
   b. Early season
   c. Late season
8. Grapevine breeding
   a. Phenotypical differences between grapevines
   b. Genological differences between grapevines
9. Grapevine nurseries
   a. Propagation
   b. Grafting
10. Vineyard floor
    a. Row middles
    b. Under vine
11. Vineyard trellis
    a. Construction
    b. Maintenance
12. Vineyard Establishment
    a. Site prep
    b. Year 0-5
13. Harvest determination
    a. Phonological ripeness vs. harvest decision