



## VIN 111 – Introduction to Viticulture and Vineyard Establishment

Date: February 5 – May 25, 2007 Semester: Spring, 2007  
Course Name: Introduction to Viticulture and Vineyard Establishment  
Course No.: VIN 111  
Room: Online Instructor: Andrew Snyder  
Course Credit: 3 Hours E-mail: snydera@redlandsc.edu  
Office Hours: By appt, phone, e-mail Phone: 405 262-2552 (ext 2436)

**Course Description:** This course is designed to introduce students to current practices for establishing a commercial vineyard and maintaining its health and productivity once established. Topics covered include varietal selection, site preparation, equipment, site selection, first season establishment, vine growth development and training, trellis systems, vine propagation, weed control and vine disease control. Field practicum sessions consisting of 16 hours of hands-on experience will be scheduled in area vineyards.

**Course Rationale:** The purpose of this course is to present a “survey of the best principles and practices” of successful vineyard establishment and maintenance in the Midwest. The content is structured to make the student think about those factors they will encounter during their careers that will influence their decisions in relationship to Midwest vineyard management.

**Prerequisites:** None

**Next Course in Sequence:** VIN 113

**Course Objectives:**

**Through lectures, facilitated discussions, quizzes and written assignments the student will:**

- Demonstrate the use of a Gantt diagram to schedule seasonal vineyard tasks.
- Name and describe four major species of grapes commercially viable in your area.
- Name and describe four American varieties.
- Identify sources and availability of desirable varieties in your region.
- Establish differences between winter hardiness indexes used by nurseries.
- Locate individual site in the USDA Plant Hardiness Zone Index.
- Distinguish between grafted and non-grafted grape vines.
- Establish differences between common commercial varieties.
- Differentiate between French-American hybrids and vinifera.
- Determine disease susceptibility of commercial grape varieties in specific regions.
- Identify and describe six major weeds.
- Identify and describe six major grape diseases.

- Describe three pest control methods.
- Describe organic control methods.
- List the requirements of the state certification program in your state.
- Demonstrate the proper interpretation of pesticide labels as they apply to legal and civil issues.
- Determine total length of fruiting zone per acre for most common row spacing and trellises.
- Take a soil sample according to the recommendations of the Soil Testing Lab in a specified state.
- Measure pH on samples from around a specified vineyard.
- Identify pH variation in the soil of a specified vineyard.
- Describe the process of implementation of a soil fertility plan, including timing and application methods.
- Demonstrate the ability to read a compass and topographical maps
- Identify magnetic and geographical north
- Identify drainage patterns.
- Produce a vineyard plan that includes layout diagram, number of vines, hardware, and training trellis.
- Evaluate slope and aspect.
- Identify and describe three modern trellis systems.
- Identify and describe three outdated trellis systems.
- Compare and contrast spring and fall planting practices.
- Demonstrate proficiency in stock selection, proper planting methods, and post-planting care.
- Identify and describe buds and bud anatomy.
- Differentiate between one-season old vine wood and older wood.
- List and describe bud and shoot stages
- Differentiate between trunk, cordon, shoots, suckers, fruiting spurs, and renewal spurs.
- Determine feet of cordon per acre.
- Determine feet of cordon per vine.
- Identify high tension trellis wire, guy wire, and braided cable.
- Calculate number of posts per acre.
- Draw details of 4 popular trellis configurations.
- Differentiate between 8 trellis configurations.
- Identify vine anatomy
- Identify steps for trunk and cordon selection
- Identify proper training procedures
- Determine establishment costs.
- Analyze return on investment.
- Perform a market survey.

## **\*PROPOSED SCHEDULE\***

Week 1	Chapter 1 & 2	Week 9	Chapter 13
Week 2	Chapter 3 & 4	Week 10	Chapter 14
Week 3	Chapter 5	Week 11	Chapter 15
Week 4	Chapter 6	Week 12	Chapter 16
Week 5	Chapter 7 & 8	Week 13	Chapter 17
Week 6	Chapter 9	Week 14	Chapter 18
Week 7	Chapter 10	Week 15	Chapter 19
Week 8	Chapter 11 & 12	Week 16	Chapter 20

*The instructor reserves the right to adjust the schedule as necessary.*

### **Text and supplemental materials:**

Grape Growing, Weaver, Robert J., New York: John Wiley and Sons, (1976).

**Course assignments that are potential portfolio items:** Written assignments and handout exercises.

**Outline of Subject Content:** see attached class schedule for assignments.

### **Instructional Methods:**

The instruction style will be video taped lecture delivery via the Internet.

### **Written Assignments:**

All written assignments will be typed. Spelling and grammar are extremely important in professional writing and papers will be scored accordingly.

### **Grading:**

Grading is on a simple point system as follows:

90-100	A
80-89	B
70-79	C
60-69	D

The percentage weight of student performance will be:

Examinations	90%
Practicum	<u>10%</u>
Total Grade	100%

Incomplete grades are not given in this class. Should it become necessary to withdraw, it is the student's responsibility to do so according to the guidelines in the MSU-West Plains student handbook.

## **Make up Policy and Special Instructions:**

The exams can be made up only in the event of an excused absence where the instructor has prior knowledge of the absence. Allowance of make up tests will be at the discretion of the instructor and will be taken on the date of the student's return to class.

## **Accommodations for Students with Special Needs:**

Missouri State University complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Students with disabilities who need special accommodations should make their request in the following way: (1) speak with the instructor after class or during office hours about your disability or special needs related to work in the class and (2) contact Student Services and ask to speak to the ADA officer.

## **Nondiscrimination Policy Statement**

Missouri State University is a community of people with respect for diversity. The University emphasizes the dignity and equality common to all persons and adheres to a strict nondiscrimination policy regarding the treatment of individual faculty, staff, and students. In accord with federal law and applicable Missouri statutes, the University does not discriminate on the basis of race, color, religion, sex, national origin, ancestry, age, disability, or veteran status in employment or in any program or activity offered or sponsored by the University. In addition, the University does not discriminate on any basis not related to the applicable educational requirements for students or the applicable job requirements for employees. The University maintains a grievance procedure incorporating due process available to any person who believes he or she has been discriminated against. Missouri State University is an Equal Opportunity/Affirmative Action employer. Inquiries concerning the grievance procedure, Affirmative Action Plan, or compliance with federal and state laws and guidelines should be addressed to the Equal Opportunity Officer, Siceluff Hall 296, 901 South National, Springfield, MO 65804, (417) 836-4252.

Approved by Board of Governors  
December 13, 2002

## **Student Disability Accommodation Policy and Procedures**

Within the guidelines set forth in this policy, Missouri State University is committed to providing an accessible and supportive environment for students with disabilities. Equal access for qualified students with disabilities is an obligation of the University under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Missouri State University does not discriminate on the basis of disability against otherwise-qualified individuals in any program, service or activity offered by the University. The University is committed to insuring that no otherwise-qualified individual with a disability is excluded, denied services, segregated or otherwise treated differently than other individuals because of the absence of auxiliary aids or other appropriate services; however, accommodations cannot result in an undue burden to the University or fundamentally alter the requirements essential to a program of instruction.