

FS 4340 / PS 4340
Principles of Viticulture II
Course Syllabus

I. COURSE INFORMATION:

This is a four credit hour course, consisting of two credit hours of lecture which meets 50 minutes per class two days a week, in _____, Eckles Hall on Tuesdays and Thursdays from 9:00 - 9:50 a.m. and 4 hours of laboratory work on Tuesdays from 2:00 – 5:30 pm as well. This course is open to any undergraduate student regardless of major. Course Prerequisites: FS/PS 3240 Principles of Viticulture I.

II. COURSE TEXTBOOKS:

The Science of the Grapevine: Anatomy and Physiology by Markus Keller and *Grapes* by Glen L. Creasy and Leroy L. Creasy. Supplemented by materials handed out in class.

III. COURSE DESCRIPTION:

To develop an understanding of the factors influencing vine physiology and winegrape quality such as irrigation strategies, canopy management, and disease and pest control. Budgets for profitable operation, mechanized viticulture, and current trends in viticulture will also be covered.

IV. GRADING:

The points will be converted to the following scale:

100 - 97% = A+	79 - 77% = C+
96 - 92% = A	76 - 72% = C
91 - 90% = A-	71 - 70% = C-
89 - 87% = B+	69 - 67% = D+
86 - 82% = B	66 - 62% = D
81 - 80% = B-	61 - 60% = D- Below 60% = F

V. ATTENDANCE: -

Students are expected to attend all scheduled class sessions. Excused absences are limited to illness and family emergencies and documentation will be required (i.e. a physician's note.) These are the only acceptable excused absences. It will be at the discretion of the instructor if he accepts any other absences as excused. Your final course grade will be lowered one point for each unexcused absence (example: B- to C+.) If absent, it is your responsibility to ensure any assignments due are turned in, and to find out what tasks you need to complete.

VI. MISCELLANEOUS:

ADA Statement - If you need accommodations because of a disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please inform me immediately. Please see me privately after class, or at my office (251A Eckles Hall-Stringer Wing). To request academic accommodations (for example, a note taker), students must also register with Disability Services, AO38 Brady Commons, 882-4696. It is the campus office responsible for reviewing documentation provided by students requesting academic accommodations, and for accommodations planning in cooperation with students and instructors, as needed and consistent with course requirements. Another resource, MU's Adaptive Computing Technology Center, 884-2828, is available to provide computing assistance to students with disabilities. For more information about the rights of people with disabilities, please see ada.missouri.edu or call 884-7278.

Intellectual Pluralism

The University community welcomes intellectual diversity and respects student rights. Students who have questions concerning the quality of instruction in this class may address concerns to either the Departmental Chair or Divisional leader or Director of the Office of Students Rights and Responsibilities (<http://osrr.missouri.edu>). All students will have the opportunity to submit an anonymous evaluation of the instructor(s) at the end of the course.

Academic integrity - Academic integrity is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an

advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards breaches of the academic integrity rules as extremely serious matters. Sanctions for such a breach may include academic sanctions from the instructor, including failing the course for any violation, to disciplinary sanctions ranging from probation to expulsion. When in doubt about plagiarism, paraphrasing, quoting, collaboration, or any other form of cheating, consult the course instructor.

Examination format –

There are 4 quizzes (25 points each) a midterm exam (100 points), a 5 page paper (50 points) and a final exam (150 points.) The format for the quizzes will be short answer, multiple choice, and true-false. The midterm and the final exam will be short answer, multiple choice, true-false and essay questions. The four quizzes will test the information between exams, but the midterm and final examinations will be **comprehensive!**

Date	Lecture Topic	Laboratory Topic
Week 1	Dormancy and cold hardiness	Bud examination
Week 1	Low temperature injury and recovery	
Week 2	Photosynthesis and respiration	Environmental factors and photosynthesis
Week 2	Photosynthesis and respiration	
Week 3	Vineyard floor management	Cover crop management
Week 3	Vineyard floor management	
Week 4	Vineyard nutrition	Soil sample collection
Week 4	Vineyard nutrition	
Week 5	Grapevine water use	Irrigation scheduling
Week 5	Irrigation of winegrapes	
Week 6	Irrigation systems: design and maintenance	Drip irrigation system layout
Week 6	Frost: avoidance, protection, compensation	
Week 7	Weed management	Weed management plan

Week 7	Insect pest management	
Week 8	Vertebrate pest management	Vertebrate pest management options
Week 8	Fungal diseases	
Week 9	Fungal disease control	Fungal disease control plan
Week 9	Midterm Exam	
Week 10	Viral and bacterial diseases	Strategies for virus tested grapevines
Week 10	Current trends in viticulture	
Week 11	Spring Break	
Week 11	Spring Break	
Week 12	Organic viticulture: an overview	Field trip for vineyard establishment
Week 12	Mechanized viticulture	
Week 13	Phenolic substances in grapes and wine	Sprayer calibration
Week 13	Vineyard budgets	
Week 14	Theory and measurements of vine balance	Cropping strategy
Week 14	Crop load adjustment	
Week 15	Canopy management	Shoot thinning
Week 15	Canopy management	
Week 16	Training methods for young vines and term paper due	Vine training
	READING DAY	
	Final Exam	