

FS 3240 / PS 3240
Principles of Viticulture I
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. Course Prerequisites: FS/PS 2195 Grapes and Wines of the World and FS 1010 Introduction to Viticulture and Enology or PS 2100 Introduction to Soils or PS Plant Growth and Culture.

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 OBJECTIVES:

Students will gain knowledge and skills in vineyard establishment, grapevine propagation, yield estimation, harvest and pruning. Knowledge of grapevine physiology, cultivars, and the world's major grape production regions will be also fostered.

IV. GRADING:

The points will be converted to the following scale:

A+	97-100%	C+	77-79%
A	93-96%	C-	70-72%
A-	90-92	D+	67-69%
B+	87-89%	D	63-66%
B	83-86%	D-	60-62%
B-	80-82%	F	Below 60%

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	Lab
Week1	Introduction; History and background of grapes	Introduction
Week 1	Structure of the vine	
Week 2	Structure of the vine	Canopy assessment
Week 2	Annual growth cycle of the vine	
Week 3	Annual growth cycle of the vine	Field trip to commercial winery
Week 3	Grape flower and berry set	
Week 4	Berry development	Yield estimation
Week 4	Harvest and handling of winegrapes	
Week 5	Considerations for cultivar selection	Berry sampling
Week 5	Native and hybrid winegrape cultivars	
Week 6	<i>Vitis vinifera</i> winegrape cultivars	Fruit composition analysis
Week 6	Other grape types	
Week 7	Worldwide grape production regions	Viticulture in India

Week 7	Worldwide grape production regions	
Week 8	Macroclimatic requirements of grapevines	Climatic evaluation
Week 8	Mesoclimatic requirements of grapevines	
Week 9	Soils for vineyards	Soil pit evaluation
Week 9	Mid Term Examination	
Week 10	Vineyard site selection	On-site evaluation
Week 10	Vineyard site selection	
Week 11	Vineyard design	Site development plan
Week 11	Vineyard development	
Week 12	Rootstock attributes	Graft union protection
Week 12	Rootstock selection and use	
Week 13	Grapevine propagation	Layering; taking cuttings
Week 13	Grapevine propagation-grafting	
Week 14	Thanksgiving Break	
Week 14	Thanksgiving Break	
Week 15	Training systems and trellises for grapes	Practical Aspects of Trellis installation
Week 15	Training systems and trellises for grapes	
Week 16	Pruning: theory	Balanced pruning
Week 16	Paper Due & Pruning: practice	
	Final Exam	