



**HORTSCI**

Fruits and vegetables for Florida and beyond

## **FRC3802 – VITICULTURE FOR TABLE GRAPES & WINE**

2 CREDITS

### **MEETING TIMES AND LOCATION**

**This course will be 100% online for Fall 2020 and Will meet via Zoom on Tuesdays and Thursdays, 7th period.**

### **INSTRUCTOR**

Dr. Ali Sarkhosh, Horticultural Sciences Department, 2115 Fifield Hall, +1 (352)-273-4788, [sarkhosha@ufl.edu](mailto:sarkhosha@ufl.edu)

Office hours Mondays 3:00PM- 5:00PM

Guest lectures

### **PREREQUISITES**

This introductory course is intended for students who have no prior coursework in viticulture. It is highly desirable for students to have some background in agricultural sciences, who already passed courses such as; BOT 2010C or BOT 2011C or BSC 2005. For students who do not have a background in agricultural and food sciences, it is highly recommended to consult with course instructor prior registration for this course

### **COURSE DESCRIPTION**

This course aims to teach students current practices for establishing a vineyard and maintaining its health and productivity into the final quality of the grape. Topics covered include grape varietal selection, site selection and preparation, vine growth, training and trellis systems, and equipment used in vineyard and wine production.

### **LEARNING OBJECTIVES**

Upon successful completion of this course, students will be able to:

- Explain the cultural practices used in vineyards.
- Describe the importance of grape quality in the final quality of the wine
- Compare and contrast grape varieties and their characteristics used in grape and wine production
- Diagnose vineyard problems (e.g., diseases, pests, poor canopy, nutrition and soil/water issues) that could influence final grape and wine quality/flavors.
- Explain the basic steps and equipment involved in wine making.

### **COURSE MATERIALS**

## Textbook

None required. Recommended textbook:

- Wine Grape Production Guide for Eastern North America, T.K. Wolf (ed.), Natural Resource, Agriculture, and Engineering Service (NRAES), 2008. ISBN-10: 1933395125.
- Johnson, H. and Robinson, J. 2013. The World Atlas of Wine 7<sup>th</sup> Edition. Mitchell Beasley, London, UK ISBN: 1-84000-332-4.

## COURSE GRADE

### 1. Quizzes

**10 points**

There will be five in class quizzes in the semester, 2 points/quiz. Each quiz will be timed to 10 minutes and can only be taken once. Students can refer to personal notes, slideshows, and other reference materials.

### 2. Problem solving assignments

**20 points**

There will be four problem-solving assignments in the semester, 5 points/problem set. These assignments will be due on weeks 3, 6, 9, and 12, respectively. In each assignment, students will be asked to answer to two questions (e.g. problem solving or recommendation) about cultural practices used in vineyards and wineries. Students can refer to personal notes, slideshows, and other reference materials.

### 3. Midterm exam

**35 points**

Mid-semester exam will take place during scheduled class periods in week 8. Exam includes true/false, multiple choice, ordering, and short answer question. Exam will take 50 minutes.

### 4. Final exam

**35 points**

Final exam will take place during week 16 (finals week). This cumulative exam will include true/false, multiple choice, ordering, and short answer questions. Exam will take 50 minutes.

Points earned in all assignments will be summed to calculate student final grade out of 100. Letter grades will be based on the performance of each student relative to the following point ranges:

## GRADING SCALE

A	=	95 - 100 points	C	=	< 76.9 - 73 points
A-	=	< 94.9 - 90 points	C-	=	< 72.9 - 70 points
B+	=	< 89.9 - 87 points	D+	=	< 69.9 - 67 points
B	=	< 86.9 - 83 points	D	=	< 66.9 - 63 points
B-	=	< 82.9 - 80 points	D-	=	< 62.9 - 60 points
C+	=	< 79.9 - 77 points	E	=	<60 points

Additional information on current UF grading policies for assigning grade points can be found here:

- *Grading policy*, <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

## COURSE POLICIES

### Attendance and Make-up Policy

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

- *UF Attendance policy*, <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

### Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action.

- For more information regarding the Student Honor Code, please see:  
<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>

### Software Use

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken when appropriate.

### Services for Students with Disabilities

Students with disabilities requesting accommodations should first register with the Disability Resource Center by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

- *Disability Resource Center*, 0001 Reid Hall, (352) 392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)

### Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling

services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *Counseling and Wellness Center*, 3190 Radio Road, 392-1575, [www.counseling.ufl.edu](http://www.counseling.ufl.edu)
  - Counseling Services
  - Groups and Workshops
  - Outreach and Consultation
  - Self-Help Library
  - Wellness Coaching
- *U Matter We Care*, [www.umatter.ufl.edu](http://www.umatter.ufl.edu)
- *Sexual Assault Recovery Services (SARS)*, Student Health Care Center, 392-1161.
- *University Police Department*, 392-1111 (or 9-1-1 for emergencies), [www.police.ufl.edu](http://www.police.ufl.edu)

Additionally, if you would like orientation on choosing a major, finding an internship, or planning your career, I encourage you to use the university's on-campus resources.

- *Career Connections Center*, CR-100 Reitz Union, 392-1601, <https://career.ufl.edu/>

#### Course Evaluation Process

Student assessment of instruction is an important part of the effort to improve teaching and learning. At the end of the semester, you are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. These evaluations are conducted online at:

- *Course evaluations*, [www.evaluations.ufl.edu](http://www.evaluations.ufl.edu)

Evaluations are typically open during the last two or three weeks of the semester. You will be notified of the specific times when evaluations for this course are open. Summary results of these assessments are available to students at:

- *Evaluations summary*, [www.evaluations.ufl.edu/results](http://www.evaluations.ufl.edu/results)

#### Student Complaints

You can file and resolve any complaints about your experience in this course in the following site:

- *Student complaints in residential courses*, <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

## HOS3XXX – VITICULTURE FOR TABLE GRAPES & WINE

<b>Date</b>	<b>Topics and assessments due</b>
Week 1	History, origin of commercial grape varieties and botany of the grape
Week 2	Overview of wine regions, and climate and environment
Week 3	Biology of the grapevine vegetative and reproductive growths
Week 4	Site selection and vineyard establishment
Week 5	Vine training, trellising and canopy management
Week 6	Vineyard production cycle, irrigation and nutrition management
Week 7	Weed, disease and insect management
Week 8	Mid semester summary, review, and exam
Week 9	Yield, fruit quality, harvest parameters
Week 10	Raw materials (grapes, adjuncts, yeast)
Week 11	Vineyard and winery equipment and facilities
Week 12	Fermentation processing; pre- and post-fermentation
Week 13	Science of winemaking: Red wine vs White
Week 14	The ultimate product; wine aging, sensory evaluation; other products; raisins, table grapes and juice
Week 15	Wine marketing and regulations, and vineyard/winery and agritourism