VE / HORT 113 – INTRODUCTION TO VINES AND WINES
Fall Semester 2016

INSTRUCTORS: Dr. James Harbertson (372-7506), WSU Wine Science Center, Room 239C, 359 University Drive, Richland, WA 99354-1671, jfharbertson@wsu.edu

Dr. Markus Keller (786-9263), WSU Irrigated Agriculture Research and Extension Center, Room V128, 24106 N. Bunn Road, Prosser, WA 99350, mkeller@wsu.edu

OFFICE HOURS: 11-noon Mondays

TIME/PLACE: Tuesday/Thursday 12:00 – 1:15 p.m.
Pullman: FSHN T-101
Tri-Cities: TWST 210

No textbook required

Recommended textbook: Jackson, R.S. 2014. Wine Science: Principles and Applications, 4th Edition. Elsevier Academic Press, London, UK, ISBN-13: 978-0123814685. Available on Amazon for $100.

Suggested reference text: Johnson, H. and Robinson, J. 2013. The World Atlas of Wine, 7th Edition. Mitchell Beasley, London, UK, ISBN-13: 978-1845336899. Available on Amazon for $40.

PREREQUISITES: None

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COURSE DESCRIPTION:
This course will provide an introduction to viticulture (grape growing) and enology (wine making) and help students understand more about wine.

COURSE OBJECTIVES:
Develop an understanding of the importance of both viticulture and enology in the final quality of wine. Students will learn about various topics from WSU faculty involved in the WSU Viticulture & Enology Program, as well as guest speakers.
- Learn about the history, culture, and health aspects of wine
- Learn about the wine growing regions of the world, as well as Washington's position
- Learn about wine grape varieties and their characteristics
- Understand the main environmental and viticultural inputs into wine making
- Understand the steps and equipment involved in wine making
- Understand the importance of sensory evaluation of wines
- Develop communication and writing skills
- Develop technical skills for using and evaluating information.

CLASS ATTENDANCE AND PARTICIPATION:
Students must attend each class and actively participate in class discussion. Attendance will be taken at random times throughout the semester.

COURSE ASSESSMENTS:
The course will be comprised of lectures, 4 exams, and a special topics paper. The special topics paper will cover an aspect of grape or wine production that you wish to investigate.

Lecture materials, miscellaneous assignments (if any) and e-mail are posted through the class learning site on BB learn. University of Idaho students have been provided access through their "Friends of WSU" accounts. The URL for Blackboard is learn.wsu.edu.

EXAM POLICY:
Make-up exams are not given. If you anticipate missing an exam because of an official university holiday or an emergency, please contact the instructor at your earliest convenience. You must give the instructor notice before the scheduled exam. If you are ill the day of the exam, you are still required to notify the instructor prior to the scheduled exam period. Failure to notify the instructor in advance will result in a "0" for that exam.

LECTURE SCHEDULE:
Part I: The Vineyard (Weeks 1-7)
      A. History & Culture of Grapes & Wine
      B. Botany & Structure of Grapevines
      C. Grape Varieties & Rootstocks
      D. Grapevine Growth Cycle
      E. Viticulture: Growing Grapes
      F. Environmental Impacts on Grape Production
      G. Grape Berry Development & Composition
      H. Harvesting & Picking Decisions
      I. Pests & Diseases
Part II: The Winery (Weeks 8-16)
      J. Wine Microorganisms
      K. Wine Making Introduction
      L. White Wine Making
      M. Red Wine Making
      N. Sparkling Wine
      O. Wine Faults
      P. Wine and Health
      Q. Geography of Wine (Old World, New World)
      P. Sensory Evaluation of Wine

Important Dates to Remember:
September 20:	Last day to withdraw (without fee)
September 29:	Topics paper selected
October 4:	EXAM 1
October 25:	Citation list for papers due
November 1:	EXAM 2
November 24-27:	Thanksgiving Break
November 29:	Rough draft of paper due
December 1:	EXAM 3
December 8:	Special topics paper due
December 12:	FINAL EXAM, 8:00 – 10:00 am

GRADING:

Attendance and Participation	50 points
Exams (100 points each)	400 points
Special topics paper	100 points
Total:	**550 points**

Grade	% of Total Points
A	>93.0
A-	90.0 - 92.9
B+	87.0 - 89.9
B	83.0 - 86.9
B-	80.0 - 82.9
C+	77.0 - 79.9
C	73.0 - 76.9
C-	70.0 - 72.9
D+	67.0 - 69.9
D	60.0 - 66.9
F	<59.9

SPECIAL TOPICS PAPER:
This project will be worth 100 points and will be graded on completeness and accuracy of the information, writing skills and mechanics, and completion of all components of the assignment.
The paper should include:
- A title describing the topic
- Name of the author
- An introduction to your topic and its importance to Washington
- Information on your topic, including
    - Production practices
    - Processing and use (if applicable)
    - Current technology (if applicable)
- An example of a current research project (published after 2000) involving your topic, preferably a WSU research project
- A list of references, following science citation format *(need at least 5 sources – these can be scholarly journals, newspapers, books, personal communication, trade journals, or websites.). PLEASE LIMIT YOUR USE OF POPULAR ARTICLES TO ONE OF EACH.*
- Cite your references within the paper, as well as in the list of references at the end. See http://www.wsulibs.wsu.edu/quickguides for the correct format.
- **Make sure all copied charts, graphs, and pictures are in the list of references at the end.**

Required paper format:
12 point type with 1.0-inch margins, minimum length 2 double spaced single pages (duplex OK), maximum length 3 pages; bibliography list does not count towards length.

Grading criteria used for final paper:

Writing skills and mechanics	30 points
Accuracy of information	30 points
Completeness of required information	40 points
Total	**100 points**

Late submissions will lose 10% of the possible points for each day the paper is late.

ACADEMIC ETIQUETTE:
Please do not carry on side conversations or read the newspaper during class. Please turn off smartphones, laptops and other personal electronic devices during class. Web surfing and text messaging during class are *rude and prohibited*.

ACADEMIC INTEGRITY:
Academic integrity is the cornerstone of higher education. As such, all members of the university community share responsibility for maintaining and promoting the principles of integrity in all activities, including academic integrity and honest scholarship. Academic integrity will be strongly enforced in this course. Students who violate WSU's Academic Integrity Policy (identified in Washington Administrative Code (WAC) 504-26-010(3) and -404) will fail the course or fail the assignment, will not have the option to withdraw from the course pending an appeal, and will be reported to the Office of Student Conduct. Cheating includes, but is not limited to, plagiarism and unauthorized collaboration as defined in the Standards of Conduct for Students, WAC 504-26-010(3). You need to read and understand all of the definitions of cheating: http://app.leg.wa.gov/WAC/default.aspx?cite=504-26-010. If you have any questions about what is and is not allowed in this course, you should ask course instructors before proceeding.
If you wish to appeal a faculty member's decision relating to academic integrity, please use the form available at conduct.wsu.edu.

SAFETY AND EMERGENCY NOTIFICATION:
Classroom and campus safety are of paramount importance at Washington State University, and are the shared responsibility of the entire campus population. WSU urges students to follow the "alert, assess, act," protocol for all types of emergencies and the "run, hide, fight" response for an active shooter incident. Remain alert (through direct observation or emergency notification), assess your specific situation, and act in the most appropriate way to assure your own safety (and the safety of others if you are able).
Please sign up for emergency alerts on your account at mywsu. For more information on this subject, campus safety, and related topics, please view the FBI's run, hide, fight video and visit the WSU safety portal**.**

SAFETY POLICY:
Washington State University is committed to maintaining a safe environment for its faculty, staff, and students. Safety is the responsibility of every member of the campus community and individuals should know the appropriate actions to take when an emergency arises. Please consult:
    WSU Pullman Campus Safety Plan at: http://safetyplan.wsu.edu
    WSU Tri-Cities Campus Safety Plan at: http://www.tricity.wsu.edu/disability
    WSU Emergency Management web site: http://oem.wsu.edu/emergencies

DISABILITY STATEMENT:
Reasonable accommodations are available for students with documented disabilities or chronic medical conditions. If you have a disability and need accommodations to fully participate in this class, please visit the Access Center website to follow published procedures to request accommodations: http://www.accesscenter.wsu.edu. You may also either call or visit the Access Center in person to schedule an appointment with an Access Advisor. Pullman Location: Washington Building 217; Phone: 509-335-3417. Tri-Cities resource: http://www.tricity.wsu.edu/disability, West Building room 269; Phone: 509-358-7534. All disability related accommodations MUST be approved through the Access Center. Students with approved accommodations are strongly encouraged to visit with instructors early in the semester during office hours to discuss logistics.

IMPORTANT: Per WSU policy the instructors will ONLY be able to respond to emails sent from your WSU email address. We will NOT be able to respond to emails sent from your personal email address.

SYLLABUS CHANGES DISCLAIMER:
The instructors reserve the right to alter the syllabus via class announcements or email.

SUGGESTED PAPER TOPICS will be posted on BB in a separate document.