

**Texas Tech University
Winemaking Certificate
Essential Wine Analysis**

Instructor: Maureen Qualia

Office: Hill Country University Center
Fredericksburg, TX 78624

Office Hours: TBA

Phone: 806.834.4780

Email: maureen.qualia@ttu.edu

Contact Information for Technical Support: IT Help Central 806.742.HELP

Credit: 2 CEU

Texts/ Readings:

Readings will be posted in Blackboard with corresponding units.

Course Description

This course will provide a hands-on opportunity to learn the basics of commercial wine analysis. It is designed for small commercial winemakers, winery lab techs, and advanced home winemakers. Over the course of two days, students will gain experience performing the most common and important analyses including: Ebulliometry, free and total SO₂ by aeration oxidation and the Ripper method, volatile acidity by distillation, pH, titratable acidity, brix and reagent standardization. The scope and limits of each method will be tested and results obtained will be compared to results obtained from other technologies such as the Oenofoss wine analyzer and analysis tools by Vinmetrica. There are no prerequisites for this course, however it is preferred that Wine Production 1 or 2 have been previously completed. Due to limited space and equipment, the class is limited to 20 students.

Course Learning Objectives

Upon successful completion of this course students should be able to:

1. Successfully operate and trouble shoot equipment methods taught in lab
2. Identify if results produced are accurate within the limits of each method
3. Know when and why the different analyses are performed in a winery

Course Activities

Class will meet face to face for two days from 8:00-5:00. At the end of the course all results will be collected and collated for redistribution to the class. Questions regarding the results will be sent to the students to be completed within two weeks of the end date of the lab.

Assessment of Learning Outcomes

Participation: Participation includes attendance of and contribution to discussion during live sessions.

Results analysis assignment

Grading

Assignment	Points	Due Date
Participation	150	May 23-24, 2016
Results analysis assignment	100	June 3, 2016

Laboratory Safety

This is a laboratory class. Safety is of utmost importance. Closed toed, comfortable shoes, long pants, and preferably a long sleeved shirt should be worn. Additional personal protective equipment will be provided by TTU. No food or drinks will be allowed in the laboratory at any time.

Subject to Change

This syllabus and schedule are subject to change. Please check email and BB regularly for updates.

ADA Statement.

"Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as soon as possible to make any necessary arrangements. Students should present appropriate verification from Student Disability Services during the instructor's office hours. Please note instructors are not allowed to provide classroom accommodations to a student until appropriate verification from Student Disability Services has been provided. For additional information, you may contact the Student Disability Services office in 335 West Hall or 806-742-2405." ([OP 34.22](#))

"The University is committed to the principle that in no aspect of its programs shall there be differences in the treatment of persons because of race, creed, national origin, age, sex, or disability, and that equal opportunity and access to facilities shall be available to all". If you require special accommodations in order to participate, please contact the instructor. Students should present appropriate verification from "AccessTECH" located in the Counseling Center. No requirement exists that accommodations be made prior to completion of this approved University process.

The URL for AccessTECH is: <http://www.accesstech.dsa.ttu.edu/default.asp>

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Tentative Schedule: Subject to change

Day	Topic
1	Introduction to Lab and Lab Safety
1	Brix by Hydrometry and Refractometry
1	Ethanol by Ebulliometry
1	Reagent Standardization
1	pH and meter calibration
2	Titrateable acidity
2	Volatile acidity
2	Free Sulfur Dioxide AO
2	Free and Total Sulfur Dioxide Ripper
2	Additional Technology TBA