



Syllabus: **Organic Chemistry 1 Lab**

Course Number: **CHEM 2125**

Semester & Year: **Spring 2015**

Instructor Information

Name: **M. Sheets**

Office: **Chemistry 201**

Telephone: **903-823-3359**

E-mail: **mike.sheets@texarkanacollege.edu**

Office Hours: **see posted hours**

### **Textbook/Materials Information**

*Experiments in Organic Chemistry*, ISBN # 0-89892-311-5, Hill & Barbaro, 3<sup>rd</sup> Ed

**Approved** Lab Apron

**Approved** Chemical Splash Goggles

Carbonless lab notebook from bookstore

### **Student Learning Outcomes for the Course**

1. Perform chemical experiments, analysis procedures, and waste disposal in a safe and responsible manner.
2. Utilize scientific tools such as glassware and analytical instruments to collect and analyze data.
3. Identify and utilize appropriate separation techniques such as distillation, extraction, and chromatography to purify organic compounds.
4. Record experimental work completely and accurately in laboratory notebooks, and communicate experimental results clearly in written reports.
5. Correlate molecular structure with physical and chemical properties of aliphatic and aromatic organic molecules.
6. Predict the mechanism and outcome of aliphatic and aromatic substitution and elimination reactions, given the conditions and starting materials.
7. Predict the chirality of reaction products based on enantiomeric and diastereomeric relationships.
8. Describe reaction mechanisms in terms of energetics, reaction kinetics, and thermodynamics.
9. Use spectroscopic techniques to characterize organic molecules and subgroups.

### **Student Requirements for Completion of the Course**

You will have approximately 9 lab exercises to complete this semester. Some of these exercises may take more than one lab period, but not many.

## Student Assessment

You will be graded on the preparation you make for your labs, the skill at which you carry them out, the organization of your area, and the completeness of your lab report. Above all, you are expected to be safe in what you do. Be certain and listen to the general discussion and instructions at the beginning of the semester and at the start of each lab class.

No one is expected to be an expert at the beginning of the class. You are expected to have read the pertinent material and have prepared for the lab as well as you can. As the semester progresses, you will be expected to have learned from earlier labs and your write-ups. At the end of the semester, you will still not be an expert, but you will have gained a great deal of experience in beginning organic lab.

## Class Schedule

Class will meet for 3.5 hours on **each** afternoon.

## Absentee Policy

Texarkana College's absentee policy allows instructors to withdraw a student from a course due to excessive absences. If a student leaves and returns during class or leaves the class before the class is over, he/she **may** be considered absent. Three tardies constitute one absence. It is the student's responsibility to check the syllabus for each instructor's tardy policy.

In some workforce/vocational areas, such as nursing and cosmetology, certification requirements necessitate an absentee policy that is more stringent than the institutional policy. In these instances, the matter of certification takes precedence over local policies, since certification policies are established by the State of Texas.

Faculty members **are not** obligated to provide opportunities for students to make-up missed assignments and tests as a result of a student's absence from class. The institution is not required to take attendance with the exception of workforce/vocational areas, where certification requirements require taking attendance. However, experience demonstrates that regular attendance enhances academic success. As such, students are expected to attend each meeting of their registered courses.

A student should not stop attending a class without formally withdrawing from the course by the institutions published Last Day for Students to Drop. If a student stops attending class after the published Last Day for Students to Drop, the student **may** receive a grade of "F" in the class. The instructor will submit the last date of attendance for students receiving a grade of "F" or "W".

Withdrawal from a course(s) **may** affect a student's current or future financial aid eligibility. Students should consult the Financial Aid Office to learn both short and long term consequences of a withdrawal.

## Excused Absences

A student's absence due to school trips and/or school business will not be counted against a student's allowable number of absences. Military duty and absences for Holy Days (FBD LEGAL) are covered in a separate section of the catalog and the student handbook. These are the only excused absences that are considered by Texarkana College. Responsibility for work missed for any absence is placed on the student. Instructors are required to allow students to make up work missed if the absence is due to military duty\* or religious holy days when students follow the correct notification procedures. Instructors are not required to allow students to make up work for absences due to other reasons. Make-up policies are listed in each individual instructor's syllabus.

## Maximum Allowable Absences

After official registration, the following number of unexcused absences will be the maximum allowable before a student **may** be dropped from the class. Mandated program certification requirements detailed for certain programs regarding the maximum allowable unexcused absences takes precedence over the following information.

A COURSE THAT MEETS FOR FIVE WEEKS (SUMMER SESSION)	
Class or Lab Meets:	An instructor may withdraw a student from a course if absences exceed:
Four times a week (MTWR classes)	4
	Three tardies count as one absence

## CHEM 2125 Attendance Policy

Students are expected to attend and participate in class. While it is recognized that there are many valid reasons for missing class, it must be remembered that if you miss class, you will miss discussion or lab work important to you. Excessive absences can lead to your being dropped from class. **You are allowed four (4) absences from lab.**

## Make-up Policy

There are no make-up times for labs. If you miss one, you will take a "0" on that lab.

## Academic Integrity Statement

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an "F". Information on this policy can be found in the Student Handbook at <https://texarkanacollege.edu>.

## Disability Act Statement

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Larry Andrews at 903.823.3283, or go by the Recruitment, Advisement, and Retention Department located in the Administration building for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations.

## Financial Aid

**Attention!** Dropping this class may affect your funding in a negative way! You could owe money to the college and/or federal government. Please check with the Financial Aid office before making a decision.

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Organic Chemistry 2 Lab is designed to complement the second half of the two semester course taught at Texarkana College. Topics in laboratory have been chosen to amplify concepts presented in lecture found in chapters 9 and 12-21 in the textbook.

Please observe the college rules concerning food, drinks, and smoking. The use of tobacco products, including smokeless tobacco and electronic cigarettes, is prohibited on campus. **NO food or drinks will be allowed in the laboratory. Cellular phones are not to be seen or heard in class.** If your phone rings, you **may** be asked to leave class. If you need to be contacted during class for an emergency, the number for the **TC campus police** is **903-798-3330**. In an emergency, someone can call this number and the campus police will come and get you out of class. In case of an emergency at TC, I am required to have my cell phone in class so we will be notified in case a RAVE alert is issued.

Please be aware of the guidelines for conduct as stated in the college catalog and student handbook. Students must conduct themselves so other students are not distracted from the pursuit of learning. Discourteous or unseemly behavior will not be tolerated. Faculty members, staff and other students are to be treated with courtesy and respect. If unacceptable behavior occurs, the student may be asked to leave the classroom and may be subject to disciplinary action up to and including being dropped from the class with a grade of "F".

**If you email me, please put CHEM 2125 in the subject line.**

### ***Dates to remember:***

Spring Break	-	March 9-13	Final Exams	-	May 7, 8, 11, 12, 13
Last Day to Drop with a <u>W</u>	-	April 23	Commencement	-	May 19