

CLARENDON COLLEGE

Chemistry Department

P.O. Box 968; Clarendon, Texas 79226

Spring 2012

Course: Organic Chemistry, CHEM 2325, is a 3 hour credit course.

Instructor: Larry M. Wiginton, M.S.

Purpose: The course is intended to prepare the student for future studies in chemistry and other related scientific areas. This course meets the core requirements of a laboratory science for the Associate in Arts or Associate in Science degree.

Scope: Continuation of Chemistry 2323. This study investigates various aromatic hydrocarbons completing the survey of hydrocarbons found in the field of organic chemistry. The course then investigates various hydrocarbon derivatives such as alcohols, ethers, carboxylic acids, aldehydes, ketones, carbanions, amines and sugars.

Exemplary Objectives: The learner shall:

- * understand and apply method and appropriate technology to the study of natural sciences.
- * recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
- * identify and recognize the differences among competing scientific theories.
- * demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
- * demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to , modern culture.

Student Learning Outcomes: The learner shall

- * Predict products of organic chemical reactions.
- * Explain parameters of organic chemical reactions.
- * Name and give structures of various groups of organic compounds.
- * Compare and contrast similarities and differences of alcohols, ethers, organic acids, aldehydes, ketones, and amines.
- * Present methods for giving the common and IUPAC nomenclature of substituted hydrocarbons.
- * Trace mechanisms of reactions for select hydrocarbon reactions involving substituted hydrocarbons.

Prerequisite: Organic Chemistry I

Corequisite: CHEM 2225 - Organic Chemistry Lab II

Text: Organic Chemistry: *sixth edition* by Morrison & Boyd

Attendance: Clarendon College believes strongly that the greatest single predictor of student success is attendance. Class attendance is the responsibility of the student. A student which has 6 clock hours of unexcused absences will be, upon the discretion of the instructor, dropped from the class with an F. If an absence is unavoidable the instructor should be notified as soon as possible.

Cell Phone Policy: No cell phones are allowed during class time. If special needs exist, Please make prior arrangements.

Final Exam Policy: Final exams are to be given only at scheduled times during Finals Week.

Classroom Etiquette:

- (1) Arrive on time and prepared for class.
- (2) No cell phones or electronic devices are allowed during class time, except for scientific calculators. If special needs exist, please make prior arrangements.
- (3) During an exam, no one will be allowed to leave the room until his/her exam is handed in.
- (4) No profane or inappropriate slogans and/or language.
- (5) Disruptive behavior will result in disciplinary action.

Academic Honesty: Cheating or plagiarizing on assignments or exams will not be tolerated. Such conduct will result in the student being dropped from the class with an F. The use of any unauthorized electronic devices such as cell phones with text messaging, programmable calculators, palm pilots is not allowed.

Tests: Four to six exams, each covering the material presented since the previous exam, and 15 daily quizzes will be given throughout the semester. The quiz average will count as a test. The last exam will be given during finals week. Each test will cover approximately two to three chapters from the text. Each test will consist of short essay questions and a selection of mathematical problems.
No makeup tests will be given. If a student is absent due to school related activities, he or she must take the exam before being gone.

Grading: Grades will be calculated based on the numeric average of lecture exams and quizzes.

A -- 88-100 ; B – 75-87; C -- 60-74; D -- 50-59; F -- below 50

Withdrawal: If you decide that you are unable to complete this course or that it will be impossible to complete the course with a passing grade, you may drop the course and receive a "W" on your transcript instead. Withdrawal from a course is a formal procedure that you must initiate. If you do not go through the formal withdrawal procedure, you will receive a grade of "F" on your transcript.

A student is permitted to drop a course if he/she obtains an official drop slip from the office and has the instructor sign the slip before the 12th class week.

Remember, a student is only allowed to drop the same class twice before he/she will be charged triple the tuition amount for taking the class a third time or more. Furthermore, beginning with the Fall 2007 semester, students in Texas may only drop a total of 6 courses throughout their entire undergraduate career. After the 6, he/she will no longer be able to withdraw from any classes.

Office: Room 210 of the Academic Center.

Office hours: 8:00 – 10:00 MWF; 8:00 – 9:30 TTh;

4:00 – 5:00 M at Pampa Center Rm 203

Office phone: 874-4828

Home phone: 259-3837

e-mail: larry.wiginton@clarendoncollege.edu

Course Outline:

- (a) Alkynes
- (b) Cyclic Aliphatic Compounds
- (c) Aromaticity
- (d) Electrophilic Aromatic Substitution
- (e) Aldehydes & Ketones
- (f) Carboxylic Acids
- (g) Amines

Americans with Disabilities Act: The instructor, upon request, is committed to rendering appropriate assistance to any student with a disability.

Class Contract: Please sign and return.

[Display Class Contract](#)