

CLARENDON COLLEGE

Division of Science and Health

Chemistry Department

Spring Semester 2026

Course Name: CHEM 2325, Organic Chemistry II

Credit Hours: 3

Classroom Location: Room 208 Instructional Center

Office: Room 210 Instructional Center

Instructor: Professor Larry Wiginton, M.S. **Phone:** office 806-874-4828, cell 806-204-0023

Email: larry.wiginton@clarendoncollege.edu

Office Hours:

Monday, Wednesday, Friday - 8:00-10:00 AM

Tuesday, Thursday 8:00 AM - 9:30 AM

Monday, Wednesday - 11:00 - 12:00 AM

Course Description: Continuation of Chemistry 2323. The study of various aromatic hydrocarbons, investigation of various hydrocarbon derivatives, carboxylic acids, aldehydes and ketones, carbanions, amines, and a brief investigation into biochemical compounds.

Pre-Requisite: CHEM 2323

Co-requisite: Concurrent enrollment in Chemistry 2125 (lab) is recommended

Statement of 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.

Textbook: *Materials are provided.*

Methods of Instruction: Lecture, demonstration, audience response, audio-visual materials, homework, and the student portal

Clarendon College Campus Carry Policy: Please click the following link to become informed about our campus carry policy: <http://www.clarendoncollege.edu/CampusCarry>

Core Objectives **Critical thinking skills (CT)** – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information **Communication skills (COM)** – to include effective written, oral, and visual communication **Empirical and quantitative skills (EQS)** – to include applications of scientific and mathematical concepts **Teamwork (TW)** – to

include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

Learning Outcomes: Upon successful completion of this course, students will:

- * Understand and apply methods and appropriate technologies to scientific study.
- * Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation 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.
- * Predict products of organic chemical reactions.
- * Explain parameters of organic chemical reactions.
- * Name and give structures of various groups of organic compounds.
- * Develop an overview of the carbon atom and its role in organic chemistry.

These outcomes will assess CT and EQS objectives with embedded questions.)

Grading Policies: There will be 4 exams including the final covering lecture and text material (each exam will cover approximately two topics). During class short class quizzes will be given (approximately 10 -15). The quiz average of the ten best grades will count as a grade.

Grades are posted in Student Portal and can be discussed during scheduled office hours.

Exams: Four exams, each covering the material presented since the previous exam and 10 to 15 daily quizzes will be given throughout the semester. The last exam will be given during finals week. Each test will cover approximately two topics and will consist of 1 or 2 short essay questions and/or a selection of several problems from the assigned problem sets. If you are going to be absent for a college excused activity, you will need to make arrangements to take your exam prior to leaving.

Homework: Students will be assigned homework for each topic. Exam and quiz questions will be developed from these worksheets. Therefore, it is extremely important that each student work the problems assigned. Questions about problems will be discussed during class time.

Grading Scale for the course:

Letter Grade	Numeric Grade
A	90-100
B	80-89
C	70-79
D	60-69
F	59 and below

Classroom Policies:

Calculators: A scientific calculator may be required for use on exams.

Cellphones: Cellphone use is prohibited. They must be turned off or on silent and in your backpack, purse, or pocket. No calls, no texting, and no internet access is permitted unless prior arrangements have been made with me.

Classroom and Zoom Meeting Conduct: I will show you the respect you deserve as a student. I, in return, expect respectful behavior from you. Because the following actions cause disruption in the classroom and therefore affect the ability of students to learn, I have strict policies concerning them.

Disrespectful behavior includes...

- **Arriving late to class or lab.**
- **Leaving the room during class or lab time.** Plan restroom visits before or after class—not during class. If special needs exist, please make prior arrangements.
- **Using distracting electronic communication devices during class or lab.** This includes cell phones, laptops, tablets, etc. for purposes that are not related to coursework.
- **Sleeping in class.**
- **Talking in class about non-relevant topics.** Class time is not for visitation with fellow classmates.
- **I do NOT allow abusive, obscene, or offensive clothing, jokes, or behavior.**
- **Disrespectful behavior could result in your being asked to leave the class.**

Absences: Attendance will be recorded each day. Data indicates that higher attendance rates increase the chance a student will complete the course with a passing grade. Be on time. If you are not present when attendance is taken, you will be counted absent. No late exams are allowed, except by special arrangement. If you are going to miss an exam with a college excused absence, contact me to make arrangements for taking the exam early. Documentation will be required for college excused absences. If prior contact is impossible, you must contact me by the end of the second working day after the absence to arrange for make-up work.

Studying: This course covers a lot of material and will move fast! Make sure that you do not get behind schedule for regular study time. Needed study time will vary individually, but at least 8-10 hours per week is recommended outside of class. The purpose of lecture is to further explain and reinforce comprehension of the reading material. It is in your best interest to complete reading assignments before coming to class. If you are having trouble with a topic or particular problems, please contact me for an appointment during office hours or take advantage of free tutoring services which will be provided in the library.

College Policies

Academic Integrity Policy: Clarendon College is committed to a philosophy of honesty and academic integrity. It is the responsibility of all members of the Clarendon College community to maintain academic integrity at Clarendon College by refusing to participate in or tolerate academic dishonesty. Any act of academic dishonesty will be regarded by the faculty and administration as a serious offense.

Academic dishonesty violations include, but are not limited to: (1) obtaining an examination, classroom activity, or laboratory exercise by stealing or collusion; (2) discovering the content of an examination, classroom activity, laboratory exercise, or homework assignment before it is given; (3) observing the work of another during an examination or providing answers to another during the course of an examination; (4) using an unauthorized source of information during an examination, classroom activity, laboratory exercise, or homework assignment ; (5) entering an office, classroom, laboratory, or building to obtain unfair advantage; (6) taking an examination for another person; (7) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person; (8) altering grade records; (9) using any unauthorized form of an electronic communication device during an examination, classroom activity, or laboratory exercise; and/or, (10) plagiarism. (Plagiarism is defined as the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person's work without proper credit. This includes, but is not limited to, turning in a paper purchased or acquired from any source, written by someone other than the student claiming credit, or stolen from another student.)

Students are responsible for reporting known acts of academic dishonesty to a faculty member, the program coordinator, the associate dean, and/or dean. Any student with knowledge of a violation who fails to report it shall him/herself be in violation and shall be considered to have committed an act of academic dishonesty. Additionally, any student who reports him/herself in violation of this code before it is likely that another might consider this possibility will be understood as repentant and acting in good faith. Though the confession will not excuse the student for the violation, the confession will be considered and the violation should not result in suspension from school except in the most extreme cases.

While academic integrity and honesty are the responsibility of the individual student, each individual faculty member, teaching assistant, and/or laboratory instructor is responsible for classroom management and for maintaining ethical behavior within the classroom and/or laboratory.

Faculty who discover or suspect a violation should discuss the matter with the suspected violator(s) and attempt to resolve the case at that point. In cases of convincing evidence, the faculty member should take appropriate action. The faculty member and student should complete a Counseling Sheet regarding the violation. (The Counseling Sheet should contain at a minimum the date and time of the violation, the course, the instructor's name, the student's name, an explanation of the infraction or facts of the case, and the resolution to the incident.) This form should be signed by the student, faculty member, program coordinator, and the Vice President of Student Services. The Vice President of Student Services will maintain a file on all violations. If a faculty member prefers to report the case directly to the Vice President of

Student Services, it remains his/her prerogative to do so. Additionally, if the faculty member and the accused student cannot reach a resolution or if the faculty member believes that suspension from school is the only fair sanction, the case should immediately be reported by the faculty member, in writing, to the Vice President of Student Services. If the Vice President of Student Services observes any trends in student behavior which involve more than one violation or act of academic dishonesty, the Dean is responsible for notifying all faculty members involved, for contacting the student(s) involved, and after consultation with the faculty member(s) involved for taking the appropriate action. The Vice President of Student Services is responsible for the timely notification (normally within two weeks) to all parties of an action taken.

Grievance/Appeals: If you have a dispute concerning your grade or policies in this class, it is the student's responsibility to contact the instructor to discuss the matter. Should things remain unresolved, please follow the procedures described in the Clarendon College Student Handbook or College Policy Manual.

Withdrawal (Dropping the Course): 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. (The last day to drop a course is available on the Academic Calendar, located at the Student link on the Clarendon College website.) 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 whatever grade you have earned. According to Texas state law 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 6th dropped class, he/she will no longer be able to withdraw from any classes.

Accommodations Statement: REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT

In accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, any student who feels that he or she may need any special assistance or accommodation because of an impairment or disabling condition should contact the Associate Dean of Enrollment Services at 806-874-4837 /

janean.reish@clarendoncollege.edu or visit the Clarendon campus at Clarendon College. It is the policy of Clarendon College to provide reasonable accommodation as required to afford equal educational opportunity. It is the student's responsibility to contact the Associate Dean of Enrollment Services.

Nondiscrimination Policy:

Clarendon College, in accordance with applicable federal and state law, prohibits discrimination, including harassment, on the basis of race, color, national or ethnic origin, religion, sex, disability, age, sexual orientation, or veteran status.

It is the policy of Clarendon College not to discriminate based on gender, age, disability, race, color, religion, marital status, veteran's status, national or ethnic origin, or sexual orientation. Harassment of a student in class, i.e., a pattern of behavior directed against a particular student with the intent of humiliating or intimidating that student will not be tolerated. The mere

expression of one's ideas is not harassment and is fully protected by academic freedom, but personal harassment of individual students is not permitted.

Course Outline:

- (a) Reactions of alkenes
- (b) Alkynes
- (c) 1st Exam
- (d) Cyclic Aliphatic Compounds
- (e) Aromaticity
- (f) 2nd Exam
- (g) Electrophilic Substitution
- (h) Aldehydes & Ketones
- (i) 3rd Exam
- (j) Carboxylic Acids
- (k) Amines
- (l) Final Exam