CHEM 2043 General Organic Chemistry II
Summer 2021

Instructor: Dr. Matthew Minus
Section # and CRN: Section Z01, 32112
Office Location: Room 330 AF – E. E. O’Bannion
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Email Address: maminus@pvamu.edu
Office Hours: MTW 10:00 am – 11:00 am
Mode of Instruction: Zoom

Course Location: Online
Class Days & Times: Asynchronous
Catalog Description: Electronic structure and bonding, introduction to organic compounds, reactions of alkenes, stereochemistry, reactions of alkynes, electron delocalization and resonance, reaction of dienes, substitution and elimination reactions. Designed for chemistry majors and minors, chemical engineering, and science majors.

Prerequisites: CHEM 2033
Co-requisites: N/A


Required Resources: Wiley online subscription, WileyPLUS

Recommended Texts: Organic Chemistry as a Second Language: Second Semester Topics, David Klein,
ISBN-10: 9781119110651
Any sophomore-level organic chemistry textbook

Student Learning Outcomes:

Upon successful completion of this course, students will be able to:

1. Understand the foundation of organic chemistry and the nature of carbon atom
2. Understand the concepts of covalent bond formation, orbital hybridization and orbital geometry
3. Predict electronegativity, acidity/basicity, polarizability, reactivity of elements and compounds based on periodicity
4. Assign and identify stereochemistry of organic compounds
5. Identify variations in organic reactions
6. Understand mechanistic detail the synthesis and reactions of alkenes, alkynes, and organohalides; including addition/subtraction reactions and nucleophilic substitution/elimination reactions.

7. Name alkanes, alkenes, alkynes, and organohalides according to IUPAC standards.

**Major Course Requirements**

**Method of Determining Final Course Grade**

<table>
<thead>
<tr>
<th>Course Grade Requirement</th>
<th>Value</th>
<th>Total</th>
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<tbody>
<tr>
<td>1) Quizzes</td>
<td>100 points</td>
<td>100 points</td>
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<tr>
<td>2) Exam I</td>
<td>100 points</td>
<td>100 points</td>
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<tr>
<td>3) Exam II</td>
<td>100 points</td>
<td>100 points</td>
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<td>4) Exam III</td>
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<tr>
<td>5) Exam IV</td>
<td>100 points</td>
<td>100 points</td>
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<td>6) Final Exam</td>
<td>100 points</td>
<td>100 points</td>
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<tr>
<td>7) Quiz average replaces lowest exam grade (not final exam)</td>
<td>-100 points</td>
<td></td>
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<tr>
<td><strong>Total:</strong></td>
<td>600 points</td>
<td>500 points</td>
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</tbody>
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**Grading Criteria and Conversion:**

A = 500 - 448
B = 447 - 398
C = 397 - 348
D = 347 - 298
F = 297 - below

**Course Procedures or Additional Instructor Policies**

**Taskstream**

Taskstream is a tool that Prairie View A&M University uses for assessment purposes. One of your assignments may be considered an "artifact," an item of coursework that serves as evidence that course objectives are met. More information will be provided during the semester, but for general information, you can visit Taskstream via the link in eCourses.

[NOTE: If there are any special instructions relating to assignment submissions, formatting, or other course policies, they should be included here. Include individual policies on tardies, cell phones and other class disruptions. If you have additional classroom rules that do not fit on a single page, consider posting them in eCourses instead.]
**Semester Calendar**

**Week One:**  
**Topic Description:**  
Chapter 10: Radical Reactions, Chapter 11: Synthesis, and Chapter 12: Alcohols and Phenols  
Readings:  
M = Section 10.1 through 1.7  
T = Section 10.8 through 10.13; Section 11.1 through 11.4  
W = Section 11.5 through 11.7; Section 12.1 through 12.5  
R = Section 12.6 through 12.13

**Week Two:**  
**Topic Description:**  
Chapter 13: Ethers and Epoxides – Thiols and Sulfides; Chapter 14: Infrared Spectroscopy and Mass Spectrometry; Chapter 15: Nuclear Magnetic Resonance Spectroscopy  
Readings:  
M = Exam I (Ch. 10-12); Section 13.1 through 13.4  
T = Section 13.5 through 13.12; Section 14.1 through 14.8  
W = Section 14.9 through 14.16; Section 15.1 through 15.6  
R = Section 15.7 through 15.13

**Week Three:**  
**Topic Description:**  
Chapter 16: Conjugated Pi Systems and Pericyclic Reactions; Chapter 17: Aromatic Compounds; Chapter 18: Aromatic Substitution Reactions  
Readings:  
M = Exam II (Ch. 13-15); Section 16. through 16.6  
T = Section 16.7 through 6.13; 17.1 – 17.4  
W = Section 17.5 through 17.8; Section 18.1 through 18.6  
R = Section 18.7 through 18.15

**Week Four:**  
**Topic Description:**  
Chapter 19: Aldehydes and Ketones; Chapter 20: Carboxylic Acid and Their Derivatives; Chapter 21: Alpha Carbon Chemistry: Enols and Enolates  
Readings:  
M = Exam III (Ch. 16-18); Section 19.1 through 19.6  
T = Section 19.7 through 19.13; Section 20.1 through 20.5  
W = Section 20.6 through 20.15; Section 21.1 through 21.3  
R = Section 21.4 through 21.7; Section 22.1 through 22.5

**Week Five:**  
**Topic Description:**  
Chapter 22: Amines  
Readings:  
M = Exam IV (Ch. 19 and 20); Section 22.6 through 22.13  
T = Open  
W = Open  
R = Open  
F = Final Exam (Ch. 21 and 22)

**Student Support and Success**
John B. Coleman Library
The library and its partners have as their mission "to provide resources and instructional material in support of the evolving curriculum, as a partner in Prairie View A&M University's mission of teaching, research, and service" and to support the University's core values of "access and quality, diversity, leadership, relevance, and social responsibility" through emphasis on ten key areas of service. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty.

Center for Academic Support
The Center for Academic Support (CAS) offers Tutoring via peer tutoring. The services include workshops (i.e., Save My Semester, Recalculate Your Route), seminars (i.e., Tools You Can Use: TI-84), group review sessions (i.e., College Algebra Topic Reviews, GRE Preparation), group study opportunities (i.e., TSIA, HESI, Study Break, Exam Cram), and test-taking strategies (How to take Notes, Study Buddy, 5 Day Study Guide). The Tutoring Center is a nationally certified tutoring program through the National Tutoring Association. The peer tutors are trained and certified by the coordinator each semester. Location: J.B. Coleman Library

COMPASS
The Center for the Oversight and Management of Personalized Academic Student Success (COMPASS) is designed to help Prairie View students in their second year and beyond navigate towards graduation by providing the following services: Academic Advisement, Targeted Tutorials for Personalized Learning, Campus-Wide Referrals, and Academic & Social Workshops. Location: J.B. Coleman Library

Writing Center
The Writing Center provides student consultants on all aspects of the writing process and a variety of writing assignments. Writing Center consultations assist students in such areas as prewriting, brainstorming, audience awareness, organization, research, and citation. Location: Hilliard Hall 121

University Rules and Procedures

Disability statement (See Student Handbook):
Students with disabilities, including learning disabilities, who wish to request accommodations in class should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.

Academic misconduct (See Student Handbook):
You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of academic dishonesty:
1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.

Nonacademic misconduct (See Student Handbook)
The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such
disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

**Sexual misconduct (See Student Handbook):**
Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

**Attendance Policy**
Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student’s course grade being reduced or in assignment of a grade of “F”. Absences are accumulated beginning with the first day of class.

**Student Academic Appeals Process**
Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor’s assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

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**TECHNICAL CONSIDERATIONS**

**Minimum Recommended Hardware and Software:**
- Intel PC or Laptop with Windows 7; Mac with OS X; Smartphone or iPad/Tablet with Wi-Fi
- High speed Internet access
- 8 GB Memory
- Hard drive with 320 GB storage space
- 15” monitor, 800x600, color or 16 bit
- Sound card w/speakers
- Microphone and recording software
- Keyboard & mouse
- Most current version of Google Chrome, Safari, Internet Explorer or Firefox

**Note:** Be sure to enable Java & pop-ups

**Participants should have a basic proficiency of the following computer skills:**
- Sending and receiving email
- A working knowledge of the Internet
- Proficiency in Microsoft Word (or a program convertible to Word)
- Proficiency in the Acrobat PDF Reader
- Basic knowledge of Windows or Mac O.S.

**Netiquette (online etiquette):**
Students are expected to participate in all discussions and virtual classroom chats as directed. Students are to be respectful and courteous to others on discussions boards. Foul or abusive language will not be tolerated.

**Technical Support:**
Students should go to [https://mypassword.pvamu.edu/](https://mypassword.pvamu.edu/) if they have password issues. The page will provide instructions for resetting passwords and contact information if login issues persist. For other technical questions regarding eCourses, call the Office of Distance Learning at 936-261-3283

**Communication Expectations and Standards:**
Emails or discussion postings will receive a response from the instructor, usually in less than 48 hours. Urgent
emails should be marked as such. Check regularly for responses.

**Discussion Requirement:**
Online courses often require minimal to no face-to-face meetings. However, conversations about the readings, lectures, materials, and other aspects of the course can take place in a seminar fashion. This will be accomplished by the use of the discussion board. The exact use of discussion will be determined by the instructor.

It is strongly suggested that students type their discussion postings in a word processing application and save it to their PC or a removable drive before posting to the discussion board. This is important for two reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it should be copied and pasted to the discussion board.

**Disclaimer**
The instructor reserves the right to amend or change the syllabus at any time.