

## CHEM 2043 GENERAL ORGANIC CHEMISTRY II SUMMER II 2017

<b>Instructor:</b>	<i>Dr. Bernard Wiredu</i>
<b>Section # and CRN:</b>	<i>P01-30060</i>
<b>Office Location:</b>	<i>Room 304 - E. E. O'Bannion Science Building</i>
<b>Office Phone:</b>	<i>936-261-3101</i>
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<b>Office Hours:</b>	<b>MTWR: 4:30 pm- 5:30 pm</b>
<b>Mode of Instruction:</b>	<b>Face to Face</b>
<b>Course Location:</b>	<b>New Science Building 122</b>
<b>Class Days &amp; Times:</b>	<b>MTWR: 10:00 am - 12:40 pm</b>
<b>Catalog Description:</b>	<b>General Organic Chemistry I1. (3-0) Credit 3 semester hours.</b> For chemistry majors and minors, chemical engineering, and science majors. This section will focus on organic synthesis with mechanistic detail, in addition to the spectroscopic characterization of organic compounds and identification of functional group transformation. Specifically, substitution and elimination; conjugated compounds; benzene and aromaticity with electrophilic aromatic substitution; alcohols and ethers; carbonyl compounds and derivatives; and amines will be studied in this course.
<b>Prerequisites:</b>	<b>CHEM 2033</b>
<b>Co-requisites:</b>	N/A
<b>Required Texts:</b>	Organic Chemistry, 8 <sup>th</sup> or 9 <sup>th</sup> Edition by John McMurry. ISBN-10: 0840054440

**Recommended  
Texts:**

**Student Learning Outcomes:**

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Be able to understand Substitution and elimination reactions	2	Critical thinking
2	Be able to analyze organic compounds by spectroscopic methods	2	Critical thinking
3	Demonstrate an understanding of reactions of substituted benzenes	2	Critical thinking
4	Demonstrate an understanding of reactions of carbonyl compounds	2	Critical thinking
5	Be able to understand special topics in organic chemistry	2	Critical thinking
6	Be able to do well on organic section of standardized exams	2	Critical thinking
7		2	Critical thinking
8			

## Major Course Requirements

Course Grade Requirement	Value	Total
Quizzes	3 quizzes at 50 points each	150
Exams (2)	100 each	200
<b>Total:</b>		<b>350</b>

### Grading Criteria and Conversion:

A = 350 – 315pts;  
B = 314 – 280pts;  
C = 279 – 245pts;  
D = 244 – 210pts;  
F = 209 pts or below

### Detailed Description of Major Assignments:

**Assignment Title or Grade Requirement** All exams will be designed to test fundamental knowledge acquired in the course and their applications and shall comprise of multiple choice questions, short answers and detailed organic reaction mechanisms.

**Submission of Assignments and quizzes:** Quizzes will be administered at the beginning of a class tentatively scheduled for July 18<sup>th</sup>, August 1<sup>st</sup> and August 8<sup>th</sup>.

**Formatting Documents:** Microsoft Word is the standard word processing tool used at PVAMU. If you're using other word processors, be sure to use the "save as" tool and save the document in either the Microsoft Word, Rich-Text, or plain text format.

**Exam Policy** Exams should be taken as scheduled. No makeup examinations will be allowed except under documented emergencies (See Student Handbook). A scientific calculator is required for exam taking. Students will not be allowed to use telephone or other communicating devices to make calculations

### 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.

## Semester Calendar

### Week One:

#### Topic Description

Readings: Chapter 1,  
Structure and Bonding

### Chapter 10, 11 and 12:

M= **Organohalides**

T = **Reactions of Alkyl Halides**

W = Structure Determination: Mass Spectrometry

R = Structure Determination: Infrared Spectroscopy

### Week Two:

#### Topic Description

Readings:

### Chapter 13, 14, and 15:

M = Structure Determination: Nuclear Magnetic Resonance Spectroscopy

T = Structure Determination: Nuclear Magnetic Resonance Spectroscopy

W = Conjugated Compounds and Ultraviolet Light

r = Benzene and Aromaticity

**Week Three:**  
Topic **Description**  
Readings:

**Chapter 16, 17 and 18**

M = Chemistry of Benzene: Electrophilic Aromatic Substitution  
T = Exam 1  
W = Alcohols and Phenols  
R = Ethers and Epoxides; Thiols and Sulfides

**Week Four:**  
Topic **Description**  
Readings:

**Chapter 19, 20 and 21**

M = Aldehydes and Ketones: Nucleophilic Addition Reactions Readings  
T = Carboxylic Acids and Nitriles  
W = Carboxylic Acid Derivatives: Nucleophilic Acyl Substitution Reactions  
R =

**Week Five:**  
Topic **Description**  
Readings:

**Chapter 22, 23 and 24**

M = Carbonyl Alpha-Substitution Reactions  
T = Carbonyl Condensation Reactions  
W = Amines and Heterocycles  
F = Exam 2

## **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. <https://www.pvamu.edu/library/> Phone: 936-261-1500

### **The Learning Curve (Center for Academic Support)**

The Learning Curve 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 Learning Curve 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 Rm. 207F. Phone: 936-261-1561

### **The Center for the Oversight and Management of Personalized Academic Student Success (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 Rm. 306. Phone: 936-261-1040

### **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. Students taking on-line courses or courses at the Northwest Houston Center or College of Nursing may consult remotely or by email. Location: Hilliard Hall Rm. 121. Phone: 936-261-3724.

### **Student Counseling Services**

The Student Counseling Services unit offers a range of services and programs to assist students in maximizing their potential for success: short-term individual, couples, and group counseling, as well as crisis intervention, outreach, consultation, and referral services. The staff is licensed by the State of Texas and provides assistance to students who are dealing with academic skills concerns, situational crises, adjustment problems, and emotional difficulties. Information shared with the staff is treated confidentially and in accordance with Texas State Law. Location: Owens-Franklin Health Center Rm. 226. Phone: 936-261-3564

### **Testing**

The Department of Testing administers College Board CLEP examinations, the HESI A2 for pre-nursing majors, LSAT for law school applicants and MPRE for second-year law students, the Experiential Learning Portfolio option, the Texas Success Initiative (TSI) Assessment, which determines college readiness in the state, and exam proctoring, among other service such as SAT and ACT for high school students. Location: Delco Rm. 141. Phone: 936-261-4286

### **Office of Diagnostic Testing and Disability Services**

As a federally-mandated educational support unit, the Office of Disability Services serves as the repository for confidential disability files for faculty, staff, and students. For persons with a disability, the Office develops individualized ADA letters of request for accommodations. Other services include: learning style inventories, awareness workshops, accessibility pathways, webinars, computer laboratory with adapted hard and software, adapted furniture, proctoring of non-standardized test administrations, ASL interpreters, ALDs, digital recorders, livescribe, Kurtzweil, and a comprehensive referral network across campus and the broader community. Location: Evans Hall Rm. 317. Phone: 936-261-3585

### **Veteran Affairs**

Veterans Services works with student veterans, current military and military dependents to support their transition to the college environment and continued persistence to graduation. The Office coordinates and certifies benefits for both the G.I. Bill and the Texas Hazlewood Act. Location: Evans Hall Rm. 323. Phone: 936-261-3563

### **Office for Student Engagement**

The Office for Student Engagement delivers comprehensive programs and services designed to meet the co-curricular needs of students. The Office implements inclusive and accessible programs and services that enhance student development through exposure to and participation in diverse and relevant social, cultural, intellectual, recreational, community service, leadership development and campus governance. Location: Memorial Student Center Rm. 221. Phone: 936-261-1340

### **Career Services**

Career Services supports students through professional development, career readiness, and placement and employment assistance. The Office provides one-on-one career coaching, interview preparation, resume and letter writing, and career exploration workshops and seminars. Services are provided for students at the Northwest Houston Center and College of Nursing in the Medical Center twice a month or on a requested basis. Distance Learning students are encouraged to visit the Career Services website for information regarding services provided. Location: Evans Hall Rm. 217. Phone: 936-261-3570

## **University Rules and Procedures**

### **Disability Statement (Also See Student Handbook):**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Evans Hall, Room 317, or call 936-261-3585/3.

### **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.

### **Title IX Statement**

Prairie View A&M University (PVAMU) is committed to supporting students and complying with the Texas A&M University System non-discrimination policy. It seeks to establish an environment that is free of bias, discrimination, and harassment. If you experience an incident of sex- or gender-based discrimination, including sexual harassment, sexual assault or attempted sexual assault, we encourage you to report it. While you may talk to a faculty member about an incident of misconduct, the faculty member must report the basic facts of your experience to Ms. Alexia Taylor, PVAMU's Title IX Coordinator. If you would like to speak with someone who may be able to afford you privacy or confidentiality, there are individuals who can meet with you. The Title IX Coordinator is designated to handle inquiries regarding non-discrimination policies and can assist you with understanding your options and connect you with on- and off-campus resources. The Title IX Coordinator can be reached by phone at 936-261-2123 or in Suite 013 in the A.I. Thomas Administration Building.

### **Class Attendance Policy (See Catalog for Full Attendance Policy)**

Prairie View A&M University requires regular class attendance. Attending all classes supports full academic development of each learner whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video and/or internet.

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 during regular semesters and summer terms. Each faculty member will include the University's attendance policy in each course syllabus.

### **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.

## ***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 in the Web browser preferences

### **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/> 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/they should be copied and pasted to the discussion board.