

**ORGANIC CHEMISTRY I**  
**CHEM 3342.001**

The University of Texas at Tyler  
Fall 2023 Syllabus

**• INSTRUCTOR CONTACT INFORMATION AND OFFICE HOURS**

**Sean C. Butler, Ph.D.**

Office: RBS 3031

Phone: 903.565.5654

Email: sbutler@uttyler.edu

*Best method of contact is through email.*

**Office Hours:**

**MW** 10:00 – 11:30 am

**T** 1:30 – 3:30 pm

**(Also by Appointment)**

It is my policy to be available anytime I am at the University. Please stop by anytime you have questions, and I will do my best to assist you whenever possible. If I am unable to help you outside of office hours, we can set up a time that works.

**• SUPPLEMENTAL INSTRUCTION AND TUTORING CONTACT INFORMATION**

**Office of Academic Support**

LIB 401 (Muntz Library)

MTWRF 8:00am–5:00pm

**Information:**

**SI Leader:** Alex Garcia-Agundiz

**Office Hours:** TBA

**Tutor:** Kevin Olmos

**Office Hours:** TBA

**• COURSE MEETING TIMES**

<u>Day</u>	<u>Time</u>	<u>Location</u>
TR	9:30–10:50 am	RBN 3035

**• PREREQUISITES**

- General Chemistry II (CHEM 1312)
- General Chemistry II Laboratory (CHEM 1112)

**• COURSE DESCRIPTION**

Emphasis on structure-reactivity relationships, nomenclature, stereochemistry, reaction pathways, and synthesis.

**• CENSUS DATE AND LAST DAY TO WITHDRAW**

Deadline for all registrations, schedule changes, and section changes is, **September 1, 2023** and the last day to withdraw from the course is **October 30, 2023**.

## • COURSE STRUCTURE

The spread of SARS-CoV-2 / COVID-19 / coronavirus (take your pick on what to call it) has caused the University structure to be a very different than in the past. It has certainly changed the way certain classes have been taught and/or attended.

**Lecture Format and Attendance:** Regular attendance is expected. Class participation is a significant measure of performance. Not attending lecture may not only cause you to become behind in the understanding of the course material but it may also negatively affect your ability to perform on quizzes and exams. By attending the lecture, you will be able to ask questions if you have any in real-time. I want and encourage you to participate. Please make sure you are respectful when speaking and that you are also respectful to others when questions/concerns arise.

Please plan to attend each class meeting and stay the entire time. If you must miss, it is your responsibility to find out what you missed. For COVID-related (with documentation) or University-excused absences, please alert the instructor and the appropriate make-up procedures will be initiated.

It is not planned for class sessions to be recorded. However, depending on what happens with any COVID regulations and the University structure, class sessions may be recorded by the instructor for use by students enrolled in this course.

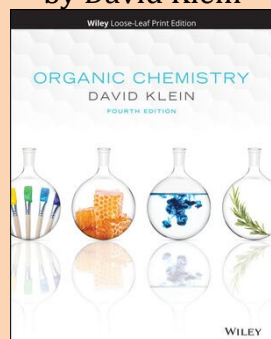
**Office Hours:** Office hours will be held in person. The times of those office hours are listed on page one of this syllabus. However, it is up to the instructor's discretion whether to move these office hours online. If so, it will be made know beforehand so everyone can plan accordingly.

## • IMPORTANT COVID-19 INFORMATION (written by UT Tyler)

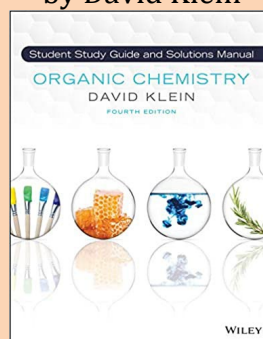
It is important to take the necessary precautions to ensure a healthy and successful year. UT Tyler continues to urge you to protect yourselves against the flu, COVID and any new threats that may be developing. Be diligent about preventive measures such as washing hands, covering sneezes/coughs, social distancing and vaccinations, which have proven to be successful in slowing the spread of viruses. Encourage those who don't feel well to stay home, and if they show symptoms, ask them to get tested for the flu or COVID. Self-isolation is important to reduce exposure (CDC quarantine/isolation guidelines). Please work with your faculty members to maintain coursework and please consult existing campus resources for support.

• REQUIRED MATERIALS

**Textbook**  
**Organic Chemistry 4th Ed.**  
by David Klein



**Student Study Guide and Solutions Manual**  
by David Klein



&

Please visit the UT Tyler Bookstore for more information  
or look at other options such as those listed below:

<https://amzn.to/47uSBzK>; <https://amzn.to/2Wdrfy4> (Textbook);  
<https://amzn.to/3YGShTE>; <https://amzn.to/3s1tbdT> (Solutions Manual)

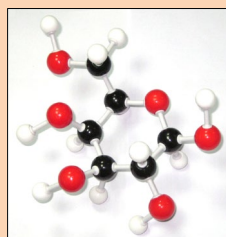


Aktiv Chemistry will be used for online homework and quizzes. You may obtain a code through the bookstore (information below) or sign up & purchase directly through the Canvas.

**Title:** Aktiv Chemistry LEGACY Activation L28  
**Author:** Aktiv Learning  
**Cost per Code:** \$28.00  
**ISBN:** 978-1-955404-32-7

• RECOMMENDED MATERIALS

**Molecular Model Kit**



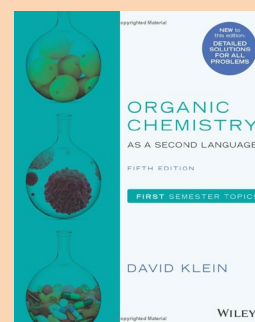
I highly suggest you obtain a model kit for this course. Stereochemistry and conformational analysis are still a large portion of organic chemistry II. Please let me know if you have any questions about model kits.

• ADDITIONAL RECOMMENDED BOOK OF INTEREST

**Workbook:**

**“Organic Chemistry as a Second Language: First Semester Topics”**  
by David Klein

Please visit <https://amzn.to/3bM9MVx> for more information.



## • COURSE GRADE

Your course grade will be based on the following:

<b>Semester Exams</b>	<b>20%</b>
<b>Quizzes</b>	<b>5%</b>
<b>Homework</b>	<b>15%</b>
<b>Final Exam*</b>	<b>20%</b>

**Semester Exams** – There will be three (3) semester examinations throughout the course and will constitute 60% (each worth 20%) of your overall grade in the course. Organic chemistry is a comprehensive subject. As such, each exam will build upon the prior topics – therefore, it is a necessity not to dismiss previous topics. Do your best and do not assume an exam will be curved.

**Quizzes** – There will be eleven (11) quizzes (assigned each Thursday, except exam days) that will be completed online (by Friday in Aktiv Chemistry accessed via Canvas). The material to be covered on these quizzes will be announced in class *or* on Canvas, no later than one day before the quiz is opened, and will be based on reading assignments and/or course topics previously assigned and/or discussed in lecture. The average of these quizzes will constitute 5% of your overall grade in the course. The two quizzes with the lowest scores will be dropped.

**Homework** – There will be graded homework assignments to accompany each chapter, and these will be completed online (Aktiv Chemistry). The average of these assignments will constitute 15% of your overall grade in the course. You may use your class notes and/or book during these assignments. The homework assignment with the lowest score will be dropped.

**Final Exam** – The final exam is cumulative/comprehensive and will constitute 20% of your overall grade in the course.

\*The final exam score, if higher than any individual semester exam score, will replace **only the lowest semester exam score**. If an exam is missed during the semester, that exam will be counted as the lowest exam grade. If more than one exam is missed, only one will be replaced by the final exam.

Grades will tentatively be based on the 90/80/70/60 scale, but may be adjusted due to my evaluation of class as a whole.

### **IMPORTANT!!!**

**All potential points for the course have been outlined in this section. There are no other points to be awarded and no extra credit to be given. If you come prepared for class and keep up with the material outside of class, you should feel no desire to seek extra credit.**

**Please do not ask for extra credit at any point during the semester.**

## • CANVAS COURSE WEBSITE

This course will be hosted on UT Tyler's Canvas server. You may access your Canvas account online at <https://www.uttyler.edu/canvas>.

This site will contain a significant amount of information that will help you in this course in addition to being the medium through which you may see your *estimated* grade (Note: Canvas will not automatically replace your final exam for the lowest exam grade. You will have to do that calculation yourself. Even though Canvas will attempt to calculate grades, I would always check them by doing the math yourself.)

Both the SI Leader and I will contact you through Canvas, so be sure you have your account to receive alerts. We are not responsible for you not receiving announcements pertaining to this course. Get into the habit of checking Canvas at least once a day or make sure your settings are such that announcements made regarding the course will be pushed to your email or mobile device.

Exams and quizzes will also be administered through the Canvas course site. More information can be seen about these assignments in the **Course Grade** section of the syllabus.

## • TENTATIVE LIST OF COURSE TOPICS

1. A Review of General Chemistry (*most of it on your own*)
2. Molecular Representations
3. Acids and Bases
4. Alkanes and Cycloalkanes
5. Stereoisomerism
6. Chemical Reactivity and Mechanisms (most on your own; content to be included in future chapters)
7. Alkyl Halides: Nucleophilic Substitution and Elimination Reactions
8. Addition Reactions of Alkenes

## • STUDENT LEARNING OUTCOMES

***"IF A FELLOW HAS AN EMPTY STOMACH, IT WON'T LET HIM REST UNTIL HE FILLS IT.  
TOO BAD AN EMPTY HEAD DOESN'T DO THE SAME."***

By the end of this course, you should:

1. Have a greater understanding of the atomic and molecular structure, chemical bonding, molecular geometry, acid-base chemistry, conformational analysis and stereochemical (3D) relationships of organic molecules.
2. Be able to identify the name of an organic compound by observing its structure and/or its functional groups and be able to draw a specific organic compound from the appropriate systematic (IUPAC) name.
3. Rationalize the stereochemical and regiochemical course of standard organic reactions in terms of reaction mechanisms based on principles of stability, structure, and reaction kinetics/thermodynamics.
4. Be able to predict the products as well as the mechanisms of certain chemical transformations. Specifically, the reactions of alkanes and alkenes.

• **NOTE REGARDING READING AND HOMEWORK**

It is important that you read each section or chapter as we discuss it, or better yet *before* we discuss it. The best way to develop a proper understanding of advanced organic is to solve problems using concepts discussed in the text and/or in lecture. The text is organized such that examples and problems follow the discussion of a concept or series of similar concepts. I would suggest that you sit down to read with pencil and paper handy and work through each example and problem as you reach them. If you get stumped on a problem review the relevant text material and lecture notes and then try it again.

There will be graded homework assignments (Aktiv Chemistry). However, you should also work end-of-chapter problems unless otherwise noted. Additional homework problems will be posted on Canvas as well. There may also be ungraded, practice assignments created on Chem101 if the instructor deems it necessary. **Homework and practice problems, outside of Aktiv Chemistry assignments, will not be graded and it is your responsibility to stay up to date with extra practice problems. You must show that you are self-motivated and have the discipline to complete the homework to be successful in the course.** Work hard on the problem before surrendering to the temptation to look in the study guide. Simply scanning the answers provided in the study guide will most likely not be enough to earn a passing grade. The best thing you could possibly do to improve your grade is to diligently and consistently work and rework problems. Although some memorization is necessary in learning organic chemistry, it is much more important to *understand* the concepts involved and how to apply them. Portions of exams will involve problems that will be challenging to solve without an understanding of the concepts involved.

• **TENTATIVE COURSE SCHEDULE AND EXAM DATES\***

Exam	Tentative Date
1	Thursday, September 21
2	Thursday, October 19
3	Thursday, November 16
Final	Thursday, December 7 (9:30–11:30 am, RBN 3035)

\*Exam dates are subject to change depending on material covered

**AUGUST**

S	M	T	W	T	F	S
20	21	22	23	24	25	26
27	28	29	30	31		

**Calendar Legend:** **Class Days;** **Quiz Day;** **Exam Day;** **No Class**  
 Material Covered for **Exam 1;** **Exam 2;** **Exam 3;**  
 Additional Material Covered for **Final Exam**  
 (Note: Final Exam is cumulative.)

**SEPTEMBER**

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

**OCTOBER**

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

**NOVEMBER**

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

**DECEMBER**

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9						

## • MOBILE DEVICE POLICY

The use of mobile devices is strictly prohibited unless consent is given by the instructor. This includes texting, photography, videography, voice recordings, searching/browsing the internet, listening to music, and things like these. These actions can lead to distractions so please be courteous to your fellow classmates by silencing and refraining from using your mobile devices during the allotted class-meeting time. You get out of class what you put into it – limit your distractions and you will be better off in the course.

Cell phones, smart watches, and any similar electronic devices must be turned off and put away during exams and/or quizzes. If they are observed out in a visually accessible place (i.e. between legs, on the floor, etc.), it will be assumed that they are being used to cheat; your exam will be taken away, you will receive a zero score (0 points) for the assignment, and you will be referred to the Office of Judicial Affairs.

## • STUDENT ACADEMIC CONDUCT STATEMENT

In this course, students are encouraged to study and to prepare for exams with one another. ***However, during exams, students are to work alone. Cheating will not be tolerated.*** The University regulations are very explicit about academic misconduct, and these regulations will be fully enforced. During this course, a code of honor will apply under which students are to work alone on exams and quizzes and neither give help to other nor receive help from others or from any unauthorized sources. Students also are expected to help enforce this code. The minimum penalty for cheating will be a zero on the assignment in question. **Maximum penalties, up to university expulsion, will be pursued in extreme or repeat cases.**

## • UT TYLER HONOR CODE

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

## • MAKE-UP POLICY

If you must miss class for a legitimate reason (e.g. reasons outlined in the ***University Policies*** section), the instructor will grant a make-up for a missed quiz or exam, provided that the instructor is given at least two weeks advance notice of the absence. *Also, keep in mind that the instructor decides for himself if a student's excuse for being absent is legitimate!* Failed alarm clocks, being jailed, work conflicts, attending your crush's birthday party, etc. will not constitute legitimate excuses.

The following is from the UT Tyler Catalog:

Class attendance is the responsibility of the student. When a student has a legitimate absence, the instructor may permit the student to complete missed assignments. In many cases, class participation is a significant measure of performance, and non-attendance may adversely affect a student's grade. When a student's absences become excessive, the instructor may recommend that the student initiate a withdrawal.

Unexcused absences and their relation to missed quizzes or exams will be treated as follows. The two lowest quizzes of each type will be dropped. Everyone has a bad day or is absent every now and then for reasons not outlined in the University Policies or Catalog, such as being ill or for a doctor's appointment. Therefore, **if a quiz is missed**, it will count as one of the quizzes to be dropped. **If a semester exam is missed**, it will count as your lowest exam grade and the final exam will take the place of that semester exam as outlined in the ***Course Grade*** section.



## • REGRADING POLICY

I will be very careful and consistent in the grading of your exams; however, errors in grading are possible. ***Questions concerning the grading of an exam should be submitted in writing before the next scheduled class meeting after the item was returned to you.*** Alternatively, you may see me during office hours (or any other time you find me available) with the suspect assignment or exam in hand. All scores will be considered final one week after originally being returned to you.

## • CONDUCT TOWARD OTHERS

As you know, this is a chemistry course. Chemists come from all walks of life (e.g. varying ethnicities, different religious beliefs, gender, etc.) and it is important as scientists to be able to work professionally with others in different environments. Under **no circumstances** will **any** derogatory remarks or actions toward race, gender, religion, or the like be tolerated in this course.

## • TOBACCO-FREE CAMPUS

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.

Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.

There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit [www.uttyler.edu/tobacco-free](http://www.uttyler.edu/tobacco-free).

## • UNIVERSITY POLICIES (also listed on Canvas with hyperlinks)

- **Withdrawing from Class** - Students are allowed to withdraw (drop) from a course through the University's Withdrawal Portal. Texas law prohibits students who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. The number includes courses dropped at other 2-year or 4-year Texas public colleges and universities. Make sure to consider the impact withdrawing from any course has on your academic progress as well as the financial implications. We encourage you to consult your advisor(s) and financial aid for additional guidance. CAUTION #1: Withdrawing before census day does not mean students receive a full refund. Please see the Tuition and Fee Refund Schedule. CAUTION #2: All international students must check with the Office of International Programs before withdrawing. All international students are required to enroll full-time for fall and spring terms.
- **Final Exam Policy:** Final examinations are administered as scheduled. If unusual circumstances require that special arrangements be made for an individual student or class, the dean of the appropriate college, after consultation with the faculty member involved, may authorize an exception to the schedule. Faculty members are required to maintain student final examination papers for a minimum of three months following the examination date.
- **Incomplete Grade Policy:** If a student, because of extenuating circumstances, is unable to complete course requirements by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in lieu of a grade only when all of the following conditions are met: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all course work or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor; and (c) the student presents these reasons prior to the time that the final grade roster is due. The semester credit hours for an Incomplete will not be used to calculate the grade point average for a student.

The student and the instructor must submit an Incomplete Form detailing the work required and the time by which the work must be completed to their respective department chair or college dean for approval. The time limit established



must not exceed one year. Should the student fail to complete the work for the course within the time limit, the instructor may assign zeros to the unfinished work, compute the course average for the student, and assign the appropriate grade. If a grade has not been assigned within one year, then the Incomplete will be changed to an F or to NC, if the course was initially taken under the CR/NC grading basis.

- **Grade Appeal Policy:** - UT Tyler's Grade Appeal policy requires the completion of a Grade Appeal form for this action to take place. The grade appeal begins with the instructor of the course. If a student does not agree with the decision of the instructor, the student may then move the appeal to the department chair/school director for that course. If the student is still dissatisfied with the decision of the chair/director, the appeal moves to the Dean of the College offering that course, who has the final decision. Grade appeals must be initiated within sixty (60) days from the date of receiving the final course grade. The Grade Appeal form is found on the Registrar's Form Library.
- **Disability/Accessibility Services:** In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA), The University of Texas at Tyler offers accommodations to students with learning, physical and/or psychological disabilities. If a student has a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or a history of modifications or accommodations in a previous educational environment, the student is encouraged to visit <https://hood.accessiblelearning.com/UTTyler> and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact the student when the application has been submitted and schedule an appointment with the Assistant Director Student Accessibility and Resources/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <http://www.uttyler.edu/disabilityservices>, the SAR office located in the University Center, # 3150 or call 903.566.7079."
- **Military Affiliated Students:** UT Tyler honors the service and sacrifices of our military-affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with your faculty member if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of a course or creates disruption in your academic progress. It is important to make your faculty member aware of any complications as far in advance as possible. Your faculty member is willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. Campus resources for military-affiliated students are in the Military and Veterans Success Center (MVSC). The MVSC can be reached at [MVSC@uttyler.edu](mailto:MVSC@uttyler.edu) or via phone at 903.565.5972.
- **Academic Honesty and Academic Misconduct:** The UT Tyler community comes together to pledge that "Honor and integrity will not allow me to lie, cheat, or steal, nor to accept the actions of those who do." Therefore, we enforce the Student Conduct and Discipline policy in the Student Manual of Operating Procedures (Section 8).
- **FERPA** - UT Tyler follows the Family Educational Rights and Privacy Act (FERPA) as noted in University Policy 5.2.3. The course instructor will follow all requirements in protecting your confidential information.
- **Recording of Class Sessions:** Class sessions may be recorded by the instructor for use by students enrolled in the course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in the course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.
- **Absence for Official University Events or Activities:** All courses follow the practices related to approved absences as noted by the Student Manual of Operating Procedures (Sec. 1 -501).
- **Absence for Religious Holidays:** Students who anticipate being absent from class due to a religious holiday are requested to inform the instructor by the second class meeting of the semester.
- **Campus Carry:** We respect the right and privacy of students who are duly licensed to carry concealed weapons in all courses. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>.