

ORGANIC CHEMISTRY II CHEM 3344.001

The University of Texas at Tyler
Spring 2026 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:

TR 1:30–3:30 pm

W 10:30–11:30 pm

(Also by Appointment)

It is my policy to be available anytime I am at the University. I have an open-door policy – please stop by **anytime** you have questions or concerns and I will do my best to assist you whenever possible. I can also set up appointments if necessary. I want you to succeed and will help you how and when I can.

• SUPPLEMENTAL INSTRUCTION CONTACT INFORMATION

Office of Academic Support Supplemental Instruction

LIB 425

Office Hours:

MTWRF 8:00am–5:00pm

SI Leader: TBD

SI Sessions: TBD

Office Hours: TBD

• COURSE MEETING TIMES

<u>Day</u>	<u>Time</u>	<u>Location</u>
TR	9:30–10:50 am	RBS 2024

• PREREQUISITES

- Organic Chemistry I (CHEM 3342)
- Organic Chemistry I Laboratory (CHEM 3143)

• COURSE DESCRIPTION

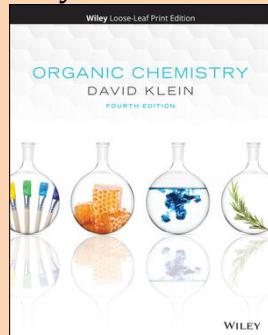
Continuation of CHEM 3342 (Emphasis on structure-reactivity relationships, nomenclature, stereochemistry, reaction pathways, and synthesis.), including an introduction to molecular biochemistry.

• CENSUS DATE AND LAST DAY TO WITHDRAW

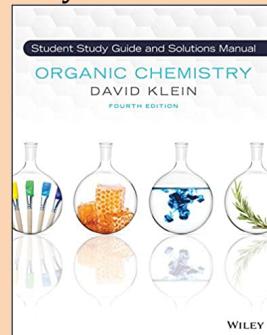
Deadline for all registrations, schedule changes, and section changes is **Monday, January 26, 2026** and the last day to withdraw from the course is **Monday, March 30, 2026**.

- 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:

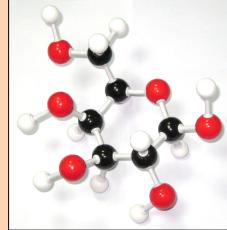
<https://amzn.to/2Wdrfy4> (Textbook); <https://amzn.to/3sItbdT> (Solutions Manual)



**Aktiv Chemistry will be used for
online homework and quizzes. You
may sign up & purchase directly
through the Canvas.**

- RECOMMENDED MATERIALS

Molecular Model Kit



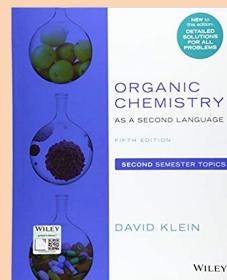
I highly suggest you obtain a model kit for this course. Stereochemistry and conformational analysis are still a large portion of organic chemistry II. Please let me know if you have any questions about model kits.

- ADDITIONAL RECOMMENDED BOOK OF INTEREST

Workbook:

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

You can find this through many online booksellers.



- COURSE GRADE

Your course grade will be based on the following:

Semester Exams	Quizzes	Homework	Final Exam*
20%	5%	15%	20%

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 at least ten (10) quizzes (assigned Thursdays, except on exam days) that will be completed online (by Sunday in Aktiv Chemistry accessed via Canvas). The material to be covered in these quizzes will be announced in class *or* on Canvas 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. You will be given at least 10 days to complete an assignment. Due to the schedule of the course, assignments may overlap with one another, and some assignments due dates may occur after the exam in which that material is tested. These homework assignments are not meant to be the only source of practicing or learning the course material. 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.

Increase Your Yield – Before the census date, everyone will have the opportunity to pick up one small flask. On an exam day, you may give your flask back to the instructor as you turn in your exam and five (5) points, which will be added to your raw exam score (no raw score may exceed 100 points). **Flasks will not be accepted once you leave the room.** You may only do this for only one of the semester exams – the final exam is excluded. It is your job to keep up with your flask. No flasks will be given out after the census date. If you do not turn the flask back in, it is yours to keep; however, if you use it, it belongs to the instructor.

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 opportunities for course points have been outlined in this section. There are no additional points or assignments. If you come prepared for class and keep up with the material, 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 access your current 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.

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

- **TENTATIVE LIST OF COURSE TOPICS**

8. Addition Reactions of Alkenes
9. Alkynes
10. Radical Reactions (Partial Chapter)
11. Synthesis (Read on Your Own)
12. Alcohols and Phenols
13. Ethers and Epoxides
16. Conjugated Pi Systems (Partial Chapter)
17. Aromatic Compounds
18. Aromatic Substitution Reactions
19. Aldehydes and Ketones
20. Carboxylic Acids and Their Derivatives

- **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 the ability to predict the reactivity of specific classes of organic compounds.
2. Be able to discuss and understand the rationale behind certain organic reactions.
3. Use the concepts from Organic Chemistry I (CHEM 3342) to provide reasoning for the outcome of certain chemical reactions.
4. Be able to come up with a logical plan to synthesize organic molecules using the reactions learned in this course as well as using the reactions from CHEM 3342.

- **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 Aktiv 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, February 5
2	Thursday, March 5
3	Thursday, April 9
Final	Thursday, April 30 (9:30–11:30 am, RBS 2024)

*Exam dates are subject to change depending on material covered

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 over both semesters.)

JANUARY						
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

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

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

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

• 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.

• COURSE STRUCTURE

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 University-excused absences, please alert the instructor and the appropriate make-up procedures will be initiated.

- **ARTIFICIAL INTELLIGENCE (AI) STATEMENT**

UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in UT Tyler's Honor Code. Faculty and students must not use protected information, data, or copy-righted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course (see below) is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy.

AI is permitted only for specific assignments or situations, and appropriate acknowledgment is required. Exams, assignments and quizzes are expected to be completed on our own, with your own knowledge and preparation, without AI assistance. However, other situations such as studying, organizing your notes, and course materials can be made more streamlined, in some cases, using AI.

- **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. 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**

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 perform their own work on assignments and exams 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.

- **UNIVERSITY POLICIES**

You may [follow this link](#) or access the University Policies through Canvas.