

ORGANIC CHEMISTRY II
CHEM 3344.001
The University of Texas at Tyler
Spring 2022 Syllabus

• INSTRUCTOR CONTACT INFORMATION AND OFFICE HOURS

Sean C. Butler, Ph.D.

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Phone: 903.565.5654

Email: sbutler@uttyler.edu

Best method of contact is through email.

Office Hours:

MWF 10:30 am – 11:30 am

T 1:30 am – 3:30 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

Virtual 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 II (CHEM 3342)
- Organic Chemistry II Laboratory (CHEM 3143)

• 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 **Monday, January 24, 2022** and the last day to withdraw from the course is **Monday, March 28, 2022**.

• 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: For the Spring 2022 semester, it is set up that this course will be taught in a face-to-face format. However, that could change depending on the COVID regulations and/or University regulations. Students are expected to wear masks. The instructor will be well over six feet away from students while lecturing, so the instructor may decide to remove a mask during that time.

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. The instructor may use discretion regarding masks in his office.

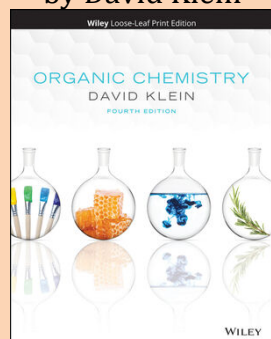
• IMPORTANT COVID-19 INFORMATION FOR CLASSROOMS AND LABORATORIES (written by UTT)

Students are expected to wear face masks covering their nose and mouth in public settings (including classrooms and laboratories). The UT Tyler community of Patriots views adoption of these practices consistent with its [Honor Code \(click to view\)](#) and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff.

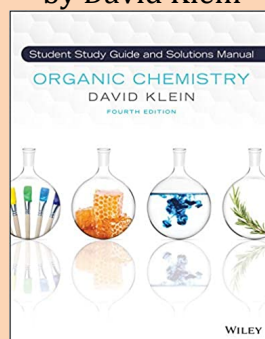
Students who are feeling ill or experiencing symptoms such as sneezing, coughing, digestive issues (e.g. nausea, diarrhea), or a higher than normal temperature should stay at home and are encouraged to use the [UT Tyler COVID-19 Information and Procedures \(click to view\)](#) website to review protocols, check symptoms, and report possible exposure. Students needing additional accommodations may contact the Office of Student Accessibility and Resources at University Center 3150, or call (903) 566-7079 or email saroffice@uttyler.edu.

• REQUIRED MATERIALS

Textbook
Organic Chemistry 4th Ed.
by David Klein



Student Study Guide and
Solutions Manual
by David Klein



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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/3sJtbdT> (Solutions Manual)

Chem 

Chem101 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 course site.

Bookstore Information

Title: Chem101 Organic - Semester Activation D28

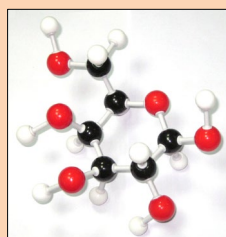
Author: 101 Edu, Inc.

Cost Per Code: \$28.00

ISBN: 978-1-7359195-3-9

• RECOMMENDED MATERIALS

Molecular Model Kit



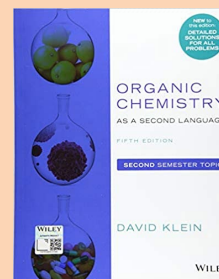
I highly suggest you obtain a model kit for this course. Stereochemistry and conformational analysis are still a large portion of organic chemistry II. Please let me know if you have any questions about model kits.

• ADDITIONAL RECOMMENDED BOOK OF INTEREST

Workbook:

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

Please visit <https://amzn.to/3eZsV43> for more information.



• COURSE GRADE

Your course grade will be based on the following:

Semester Exams	45%
Quizzes	15%
Homework	25%
Final Exam*	15%

Semester Exams – There will be three (3) semester examinations throughout the course and will constitute 45% (each worth 15%) 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 (due each Thursday, except exam days) that will be completed online (Chem101). The material to be covered on these quizzes will be announced in class *or* on Canvas at least two days before the quiz 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 15% 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 (Chem101). The average of these assignments will constitute 25% 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 a comprehensive ACS exam, covering both semesters and will constitute 15% 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 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 Chem101. 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 (Chem101). 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 Chem101 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 EXAM DATES**

Exam	Tentative Date
1	Thursday, February 3
2	Thursday, March 3
3	Thursday, April 7
Final	Thursday, April 28

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

• DEPARTMENTAL 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 where you will potentially receive a harsher penalty.

- **STUDENT ACADEMIC CONDUCT STATEMENT (see also *University Policies*)**

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 exams, a code of honor will apply under which students are to work alone and neither give help to others nor receive help from any sources.*** Students also are expected to help enforce this code. The minimum penalty for cheating will be a zero on the exam or assignment in question. **Maximum penalties, up to university expulsion, will be pursued in extreme or repeat cases.**

The use of websites (e.g. Chegg, Course Hero, etc.) that allow others to do your work for you are strictly prohibited to use, at any time, on assignments in this course. Even viewing questions of previously posted course material is a violation. If found to have done any of this, the Office of Judicial Affairs will conduct an investigation and you could be expelled from the University.

- **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.

- **CAMPUS CONCEALED CARRY**

We respect the right and privacy of students who are duly licensed to carry concealed weapons in this class. 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>.

- **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.

• OTHER UNIVERSITY POLICIES

Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar. Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date). Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

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 you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler> and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director of Student Services/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.

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.