

# CHEM 1305.001 Introductory Chemistry Syllabus

The University of Texas at Tyler

Spring 2024

MWF 8:00 - 8:55 AM  
RBN 3035

Instructor Contact:	Office	Office Hours	Email	Phone
Dr. Laura Boyd Miller	RBS 3032	M, F 9:00-10:00 am; T 10-11 am; W 1:30-3:30 pm	<a href="mailto:lboyd@uttyler.edu">lboyd@uttyler.edu</a>	566-7137

**Supplemental Instruction (SI) Leader:** Kaitlyn West [kwest9@patriots.uttyler.edu](mailto:kwest9@patriots.uttyler.edu) & Kimberly Beatty [kbeatty2@patriots.uttyler.edu](mailto:kbeatty2@patriots.uttyler.edu)

## Course Description

The study of chemistry can make a worthwhile contribution to the education of any student. Chemistry is a legitimate part of a cultural education, since it leads to better understanding of a diverse range of issues, ranging from environmental to health care to geopolitics of resource use.

read modern newspapers and magazines with full understanding. The extent to which chemistry influences our lives has become so great that technical topics are items of daily conversation. Chemistry is constantly providing us with a supply of new things for better living, for longer and healthier lives, and for increased leisure in which to enjoy life. Chemistry is playing an important role in

the exploration of the universe. It thus becomes evident that knowledge of chemistry is an important possession of any intelligent, well-informed member of our society.

The approach of this introductory chemistry course makes it suitable for non-science and non-engineering majors. The development of the subject presupposes a basic background in algebra at the high school level but does not presuppose previous training in chemistry.

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## Course Requirements

Class will meet in RBN 3035 each Monday, Wednesday, and Friday, January 16 – May 1 except Monday - Friday March 11-15 (Spring Break) from 8:00 – 8:55 AM.

Students should have all necessary materials (notes, calculator, periodic table) at each class meeting. If you miss a lecture you can find pre-made lecture videos in our Canvas course toolkit.

However you will still lose the attendance points for that day. CHEM1105 - Introductory Chemistry I Laboratory is NOT included in this course. It is not required, but it is recommended to be taken concurrently with the lecture course.

## Online Websites

This course will have a significant online presence at <http://www.uttyler.edu/canvas/index.php> and [www.achieve.macmillanlearning.com](http://www.achieve.macmillanlearning.com). Chapter PowerPoint notes will be available on Canvas as well as chapter quizzes and announcements. Chapter homework can be found on the Achieve Macmillan Learning website.

## Student Learning Outcomes

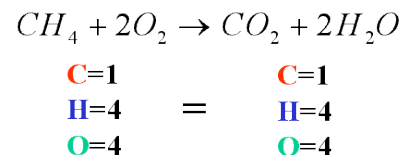
Throughout the semester you will be required to demonstrate a working knowledge of general, organic and biological chemistry at the introductory level using Critical Thinking Skills (CT), and Empirical and Quantitative Skills (EQS).



By the end of the course successful students should be able to:

1. Apply the scientific method to analyze items or problems and use original thinking and chemical knowledge to synthesize solutions (CT)

2. Manipulate and analyze data embedded in word problems found on homework, quizzes, and tests (EQS)

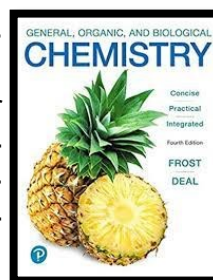


## Instructional Materials

Required Texts: **You MUST have *Achieve Macmillan learning* access to complete the online homework assignments.**

You **MUST** have access to a computer with internet.

Materials/Notes available on Canvas. A scientific calculator (capable of logarithms and exponents) is also required.



• ***Strongly*** Recommended General, Organic and Biological Chemistry: An integrated approach by Frost and Deal. 4th Edition (ISBN: 9780134988696).

## Attendance Policy



Experience has shown that course grades are directly proportional to lecture attendance. Therefore, 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 grade. If you are unable to attend a class meeting, all discussed material and all given assignments are your responsibility. There will be previously recorded lectures on the Canvas course toolkit. Punctuality is mandatory. Please do not interrupt class time by entering late or leaving early.

Attendance will be taken daily by submitting a short online quiz at the end of class. **This will count as 15% of your overall grade.** There will be at least 36 quizzes. The quiz will be due by midnight each M, W, and F. I will drop the 6 lowest quiz scores at the end of the semester. The material to be covered on these quizzes will be based on the lecture material of that class day or the previous lecture day. **You may use your class notes and/or book during these quizzes. These will be submitted online through Canvas (use the Office Lens app to scan answer).**

## Dropping the Course

The last day to withdraw from the course without penalty is **January 29, 2024**. The last day to withdraw from the course with an automatic grade of "W" is **March 25, 2024**.

*Before dropping the course, you should consult with your instructor to examine all of your options. Dropping this course does not obligate you to also drop the lab course because they are two separate courses. However, dropping the lab course may significantly hinder your progress in this course because you will not be getting the hands-on learning from the lab.*

## Course Grading

Grades will tentatively be based on a 90/80/70/60 scale, but may be adjusted based upon my evaluation of the overall class performance. Attendance, class participation, and initiative will be considered for borderline grades.

**Homework:** will regularly be assigned for you to complete outside of the lecture class time. It is very important that you complete such homework assignments in a timely manner. **All online homework problems accessed through the Achieve website, count as 15% of your total course grade.** To access the online homework complete the following steps:

Navigate to the Achieve Access Module on Canvas and click on Achieve Registration Instructions to connect your Canvas and Achieve accounts.

Spring 2024 CHEM 1305  
CourseID: k6f3y3

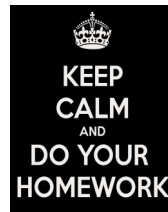
Once you have registered and enrolled, you can click the homework link in the Chapter modules. This will take you to the Achieve website. Your grades will sync to Canvas throughout the day. During sign up - and throughout the term - if you have any technical problems or grading issues, use the links in the Achieve Access Module.

**Daily Quizzes:** Each class day there will be a quiz over material taught that day or the previous day. The quiz will be due by midnight each M, W, and F. I will drop the 6 lowest quiz scores at the end of the semester. **You may use your class notes and/or book during these quizzes.**

**Chapter Quizzes:** There will be one quiz (found on Canvas) per chapter covered. Each quiz will have approximately 15 questions. There will be one extra credit quiz, which covers all 10 chapters, at the end of the semester that can replace your lowest quiz grade.

**Final Exam:** You must take the final examination to receive a passing grade in the course. Final exams cannot be taken early and there will be no make-up of the final exam! If you have *five or fewer absences*, I will *replace* your lowest *exam* score with your final exam score *if* your final exam score is higher. (If the final exam score is the lowest score, then no grade will be replaced.) For example, suppose you make the following grades 60, 80, 85, 85 and a 75 on the final. Your final grade will be calculated based on the scores 75, 80, 85, 85 (and 75 on the final) where the 60 was replaced with the 75. Only one low score will be replaced.

The percentage grades for this course will be weighted as follows:

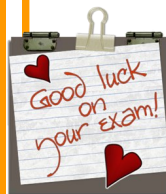


15% In-Class Quizzes  
15% Homework  
15% Chapter Quizzes  
40% Examinations (4)  
15% Final  
100% Total

**Examinations:** There will be four chapter tests given. All tests are comprehensive, but the material covered since the previous test will be strongly emphasized on a test. Tests will cover material covered from the text, discussed during the class periods, assigned homework, quizzes, and other assigned material. Any exceptions will be announced in class. **A student who does not show his/her student identification to the instructor when requested during an exam period will not receive a grade for the test/final exam.** Students are allowed only to keep pencils, eraser, calculator and identification at their desks during a test. A 3½ x 5 inch note card (handwritten, no photocopies or printed materials) is permitted for each exam. **During an exam, all other items (phones and any “smart” watch) must be inside a closed bag.**

Cell phones, smart watches, and any similar electronic devices must be **turned off and** put away during exams. 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 **test**, and you will be referred to the Office of Judicial Affairs.



## University Policies and Procedures

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <http://www.uttyler.edu/wellness/rightsresponsibilities.php>

### *Important Covid-19 Information for Classrooms and Laboratories*

The UT Tyler community of Patriots views adoption of these practices consistent with its [Honor Code](#) and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff.

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.

### *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.

### 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.

### Student Standards of Academic Conduct

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

i. "Cheating" includes, but is not limited to:

- copying from another student's test paper;
- using, during a test, materials not authorized by the person giving the test;
- failure to comply with instructions given by the person administering the test;
- possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
- using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
- collaborating with or seeking aid from another student during a test or other assignment without authority;
- discussing the contents of an examination with another student who will take the examination;
- divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
- substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
- paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
- falsifying research data, laboratory reports, and/or other academic work offered for credit;
- taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
- misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.

ii. "Plagiarism" includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another's work and the submission of it as one's own academic work offered for credit.

iii. "Collusion" includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.

iv. All written work that is submitted will be subject to review by plagiarism software.

### UT Tyler Resources for Students

UT Tyler Writing Center (903.565.5995), [writingcenter@uttyler.edu](mailto:writingcenter@uttyler.edu)

UT Tyler Tutoring Center (903.565.5964), [tutoring@uttyler.edu](mailto:tutoring@uttyler.edu)

The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.

UT Tyler Counseling Center (903.566.7254)

### Concealed Handguns on Campus

We respect the right and privacy of students 21 and over 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>

### UT Tyler a Tobacco-Free University

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).

## How to Succeed in CHEM 1305

**Students must study outside of class to be successful in this course.** Outside work includes reading the textbook, carefully examining the in-chapter exercises, doing the assigned homework, reviewing lecture notes, reading the study guide, etc. Typically this requires 2 or more hours for each hour of lecture. Help sessions will be conducted by the instructor throughout the semester. Supplemental Instruction is also available for this course. Please also take advantage of the posted office hours to seek assistance during the semester.

Students should take adequate lecture notes, and these notes should be reviewed as soon as possible after class meeting so

that the students may consult with the instructor about any material that may seem unclear. Do not wait until the last minute before a test to ask about material that is not understood.

Form a study group, make a schedule of meetings and stick to it! The purpose of these groups are to help each other learn and to encourage each other.

When you can write out the material from memory and solve problems without looking anything up, you are ready for the tests. It will take many attempts before you can expect to reproduce and use the information, so keep on rehearsing and practicing.



Review your graded tests for accuracy in grading.

Students with a grade D or F should consult with the instructor voluntarily to ascertain the reason for their low average in the course. These conferences should come as soon as possible after the grades reach this danger point in order that the students might correct their problems. **Any student struggling in the course or wishing to improve his/her grade will be encouraged to attend SI, tutoring and office hours.**



## Tentative Topics/Tentative Test Dates

Chapter 1 - Chemistry Basics	Chapter 7 - What's the Attraction? State Changes, Solubility, and Lipids	Test 1 (Chapters 1-3) <b>Wednesday, February 14th</b>
Chapter 2 - Atoms and Radioactivity	Chapter 8 - Solution Chemistry	Test 2 (Chapters 4-6) <b>Friday, March 8th</b>
Chapter 3 - Compounds	Chapter 9 - Acids, Bases, and Buffers in the Body	Test 3 (Chapters 7-8) <b>Wednesday, April 3rd</b>
Chapter 4 - Introduction to Organic Compounds	Chapter 10 - Proteins	Test 4 (Chapters 9-10) <b>Wednesday, April 24th</b>
Chapter 5 - Chemical Reactions		Final Exam, 8-10 am <b>Wednesday, May 1st</b>
Chapter 6 - Carbohydrates		

These dates and chapters covered are tentative and are subject to change.

## Make-Up Exams

Make-up tests will only be given in the event of an **excusable** absence. Excusable absences includes participation in university sponsored athletic events (note from coach required), or other extreme circumstances as determined by the instructor. In the case of an unexpected circumstance, **the instructor must be notified prior to the absence or the test will not be excused, no exceptions. Notification may be done in person, by telephone (leave a voice message if necessary), or by email.** It is the student's responsibility to arrange with the instructor for taking a make-up test. **NO make-up test will be given after the test papers have been returned to the class.**

Below is a tentative schedule as a general guideline. Some material may be moved to the next day or covered the a day earlier.

<b>Week</b>	<b>Date</b>	<b>Day</b>	<b>Plan</b>	<b>Plan</b>
1	Jan-15	Monday	<u>No class - MLK</u>	<u>No Class</u>
	17	Wednesday	Intro to Class - Syllabus	Intro
	19	Friday	Begin Ch. 1	1.1, 1.2
2	22	Monday	Continue Ch. 1	1.2, 1.3
	24	Wednesday	Continue Ch. 1	1.3, 1.4
	26	Friday	End Ch. 1/Begin Ch. 2	1.5, 1.6, 2.1
3	29	Monday	Continue Ch. 2	2.2, 2.3, 2.4
	31	Wednesday	End Ch. 2	2.4, 2.5, 2.6
	Feb-2	Friday	Begin Ch. 3	2.7, 3.1, 3.2
4	5	Monday	Continue Ch. 3	3.2, 3.3, 3.4
	7	Wednesday	Continue Ch. 3	3.4, 3.5, 3.6
	9	Friday	End Ch. 3	3.6, 3.7
5	12	Monday	Review for Test 1	Ch. 1-3
	14	Wednesday	Test 1	Ch. 1-3
	16	Friday	Begin Ch. 4	4.1, 4.2, 4.3
6	19	Monday	Continue Ch. 4	4.3, 4.4
	21	Wednesday	End Ch. 4	4.4, 4.5
	23	Friday	Begin Ch. 5	4.5, 5.1
7	26	Monday	End Ch. 5	5.2, 5.3, 5.4, 5.5
	28	Wednesday	Begin Ch. 6	5.6, 6.1, 6.2, 6.3
	1-Mar	Friday	Continue Ch. 6	6.3, 6.4
8	4	Monday	End Ch. 6	6.5, 6.6, 6.7
	6	Wednesday	Review for Test 2	Ch. 4-6
	8	Friday	Test 2	Ch. 4-6
10	18	Monday	Begin Ch. 7	7.1
	20	Wednesday	Continue Ch. 7	7.2
	22	Friday	End Ch. 7	7.3, 7.4, 7.5
11	25	Monday	Begin Ch. 8	8.1, 8.2
	27	Wednesday	Continue Ch. 8	8.3, 8.4
	29	Friday	End Ch. 8	8.5, 8.6, 8.7
12	1-Apr	Monday	Review Test	Ch 7-8
	3	Wednesday	Test 3	Ch. 7-8
	5	Friday	Begin Ch. 9	9.1, 9.2, 9.3
13	8	Monday	Continue Ch. 9	9.3, 9.4, 9.5, 9.6
	10	Wednesday	End Ch. 9	9.6, 9.7, 9.8
	12	Friday	Begin Ch. 10	10.1, 10.2
14	15	Monday	Continue Ch. 10	10.2, 10.3, 10.4
	17	Wednesday	Continue Ch. 10	10.5, 10.6
	19	Friday	End Ch. 10	10.6, 10.7
15	22	Monday	Review for Test 4	Ch. 9-10
	24	Wednesday	Test 4	Ch. 9-10
	26	Friday	Review Final	All Chapters
16	29	Monday	Study Day	No class
	1-May	Wednesday	Final Exam 8-10:00	All Chapters