



CHEM 1305 Introductory Chemistry I COURSE SYLLABUS: Fall 2026

INSTRUCTOR INFORMATION

Instructor: Mrs. Olga Savina (Olga)

Office Location: Science 344

Office Hours: T/R - 2:15 pm - 3:15 pm and 5:00 pm - 5:45 pm, or by appointment

Office Phone: 903-468-8765

University Email Address: Olga.Savina@etamu.edu

Response Time: via email within 24 hours

(over the weekend and holiday periods responses may be delayed)

COURSE INFORMATION

Section 01E meets 08/20/2026 through 12/11/2026

Tue, Thurs 3:30-4:45 pm

Room: STC122

Textbook: Introduction to General, Organic, and Biochemistry, 11th Edition, Brooks/Cole, Cengage Learning; ISBN-13: 978-1-285-86975-9; by Bettelheim, Brown, Campbell, Farrell, Torres. The 12th edition of the book is also acceptable.

In addition, a simple calculator that can manipulate exponents and do log function is also needed. I recommend purchase of one of the following calculators, which are available for approximately \$10.00-\$15.00: TI-30X IIS (solar) or TI-30X IIB (battery) or TI-30Xa.

COURSE DESCRIPTION

This is a one-semester course that covers the fundamentals of chemistry, including basic physical principles and descriptive chemistry of metals and non-metals, with application to related fields. The course is designed to develop and improve the student's ability to think critically and solve problems. Thus, a letter grade earned in this class not only reflects the student's knowledge of basic general chemistry but also reflects the student's ability to solve scientific problems based on available information and to become a better scientist. This course is designed for students majoring in Agricultural Science, Wildlife and

Conservation Science, the Environmental Sciences, Nursing, and non-majors seeking an understanding of chemistry and its applications in human health, agriculture, and the environment. Students are introduced to the scientific method, the basic structure of the atom, the microscopic and macroscopic properties of solutions, solids, liquids, and gases, and the utilization of basic mathematics manipulations to determine solution concentrations, reaction stoichiometry, etc. The course will prepare students for the survey of organic and biochemistry courses.

Prerequisite: The student must have completed MATH 1314 or MATH 1324 or MATH 179.

Student Learning Outcomes

- Exam questions will be developed to evaluate a student's critical thinking skills. The students in the course will be required to analyze, evaluate, or solve problems when given a set of circumstances or data.
- Exam questions will be developed to evaluate a student's ability to understand and utilize mathematical functions and empirical principles.
- Student communication in the class will be clear, purposeful, and make appropriate use of evidence, data, and technology. Students will be able to engage with peers in a way that demonstrates their understanding of relevant course theories and concepts.
- At the completion of the course, students will understand the scientific method, the basic structure of the atom, the microscopic and macroscopic properties of solutions, solids, liquids, and gases, basic nuclear chemistry, and the utilization of basic mathematical manipulations to determine solution concentrations, reaction stoichiometry, etc.

COURSE REQUIREMENTS

Student Responsibilities or Tips for Success in the Course

Minimal Technical Skills Needed:

It is expected that students will have a basic knowledge of the internet and how to interface with D2L Brightspace, our learning management system (LMS).

Instructional Method:

The course is mainly lecture-oriented and will focus on important chemistry concepts but will not serve as a substitute for reading the textbook. The textbook is a more detailed presentation with a more extensive set of example problems. **You should read chapters from the textbook and set aside enough time for independent study.**

If you miss a lecture, you are still responsible for that day's material. Read the chapter, get notes from someone in class, and see the instructor for any clarification.

If you have difficulty with the material, feel free to see the instructor as soon as you can for advice on how to improve your understanding of it.

Pointers to Succeed in CHEM 1305:

1. The lectures in this course will cover Chapters 1–9 of the assigned textbook. This material will be covered at the rate indicated by the Tentative Class Schedule. Be sure to read the textbook before coming to the lectures. The lectures will focus on

important chemistry concepts but will not serve as a substitute for reading the textbook. The textbook is a more detailed presentation with a more extensive set of example problems. Chemistry is a physical science, and it is imperative to master calculations to pass the course.

2. Use your homework to practice the concepts you learned in lecture. Working through the problems will help you succeed in the course. The more problems you solve, the better prepared you will be for exams.
3. Finish your homework promptly. Working through the problems will help you succeed in the course. The more problems you solve, the better prepared you will be for exams. The due dates for the HW assignments will be communicated in class and/or D2L.
4. It is assumed that a good student will be able to work through all the problems in the textbook for each chapter. It is not a good idea to try to memorize solutions to problems, since identical problems will not be used again. You should always critically analyze your work to ensure that you have applied reasonable steps to deduce your solution. Also, ask yourself how a problem might be rearranged as a possible test item. Be precise with your answers. You will find this helpful in preparing for exams, since there is typically more than one possible solution to a problem. On the exams, you will be graded on what you write, not what you meant to write, or thought you wrote. If your explanations do not make sense to your classmate, then they probably will not make sense to the exam grader.
5. Review the lecture notes after each chapter. Write down the questions you have and ask the instructor during office hours or make an appointment with the instructor.

GRADING

Final grades in this course will be based on the following

scale: A = 90%-100%

B = 89%-80%

C = 79%-70%

D = 69%-60%

F = 59% or Below

The grade for this course will be derived as follows:

Four examinations – 60% (15% x 4)

Homework and quizzes – 15%

Critical Thinking Project – 5%

Final exam – 15%

Attendance – 5%

Late work will not be accepted, and makeup homework or exams will not be given.

Students are strongly encouraged to set up text and email notifications in the settings in Brightspace so you will receive emails and texts about important announcements, due dates of assignments, and exams. Also make sure to check the email from the instructor. If you miss an examination, you will be assigned a zero for that assignment. The final

exam will be comprehensive over all material covered in the class and cover material from Chapters 1-9.

The last drop date for the course please see the website:

<http://www.tamuc.edu/Admissions/registrar/academiccalendars/>

Dishonest scholarship will earn an automatic zero (0) and initiate prosecution to the fullest extent. Incomplete grades may be given only if the student has a current average $\geq 70\%$ and is precluded from completion of the course by a documented illness or family crisis.

Communication: If the instructor needs to contact an individual student, it will be via the student's e-mail account. Students should check e-mail frequently. Email is the best, easiest and fastest way to communicate with me.

If you want to make a good grade for this class, you can use the following problems, which are in the back of each chapter, to practice. The more problems that you work, the better prepared you will be for exams.

Chapter	End of Chapter Problems
Chapter 1:	16, 17, 18, 25, 26, 27, 28, 29, 32, 36, 37, 38, 39, 43, 53, 55, 56, 58, 60, 74.
Chapter 2:	10, 15, 16, 18, 22, 24, 25, 26, 28, 29, 30, 35, 46, 48, 51, 52 53, 54, 64, 66.
Chapter 3:	18, 21, 23, 24, 28, 32, 34, 35, 38, 39, 42, 50, 52, 53, 75.
Chapter 4:	18, 21, 22, 24, 29, 30, 31, 38, 39, 42, 43, 45, 46, 55, 56, 59, 70, 71.
Chapter 5:	18, 20, 23, 32, 37, 38, 39, 46, 58, 62, 64, 96.
Chapter 6:	17, 18, 24, 25, 28, 35, 37, 40, 44, 48, 51, 52, 59, 60, 67, 69, 75,76.
Chapter 7:	10, 16, 19, 25,26,27,28, 30, 31, 37, 38.
Chapter 8:	14, 16, 19, 20, 22, 26, 30, 33, 37, 56.
Chapter 9:	8, 10, 12, 14, 15, 21, 22, 25, 28, 31, 39, 40, 53

COURSE OUTLINE / CALENDAR
Tentative Class Schedule
The syllabus/schedule is subject to change

Week	Date	Topics	Reading assignments
1	08/20	Syllabus Chapter 1. Matter, Energy and Measurement	Page 1-12
2	08/25 – 08/27	Chapter 1. Matter, Energy and Measurement	Page 12-23
3	09/01 – 09/03	Chapter 2. Atoms	Page 27-39 Page 39-56
4	09/08 09/10	Chapter 3. Chemical Bonds Exam 1: (Chapters 1-2)	Page 65-77
5	09/15 – 09/17	Chapter 3. Chemical Bonds Chapter 4. Chemical Reactions	Page 77-89 Page 91-99
6	09/22 – 09/24	Chapter 4. Chemical Reactions	Page 99-116
7	09/29 – 10/01	Chapter 5. Gases, Liquids, and Solids	Page 117-123 Page 123-145
8	10/06 10/8	Exam 2: (Chapters 3-4) Fall Break: No Classes	
9	10/13 – 10/15	Chapter 6. Solutions and Colloids	Page 147-164
10	10/20 – 10/22	Chapter 6. Solutions and Colloids Chapter 7. Reaction Rates and Chemical Equilibrium	Page 164 – 173 Page 175 – 185
11	10/27 10/29	Chapter 7. Reaction Rates and Chemical Equilibrium Exam 3: (Chapters 5-6)	Page 185 – 199
12	11/03 – 11/05	Chapter 8. Acids and Bases	Page 200 – 211
13	11/10 – 11/12	Chapter 8. Acids and Bases Chapter 9. Nuclear Chemistry	Page 212 – 230 Page 233 – 259
14	11/17 – 11/19	Chapter 9. Nuclear Chemistry	Page 233 – 259
15	11/24 11/26	Exam 4: (Chapters 7,8,9) Thanksgiving break: No classes	
16	12/01 – 12/03	Final Review	
	12/10 1:15 pm – 3:15 pm Room 122	Final comprehensive exam (Chapters 1-9)	

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

Zoom Video Conferencing Tool

https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universalmenu

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@etamu.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a ETAMU campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your instructor.

The students are expected to put the class ID and name at the beginning of the subject line of all emails, for example, **Chem 1305.01E** section, when they send the emails to the instructor so the instructor can easily identify your email.

The instructor will try to respond to the student's email within 24 hours, not including the weekend.

Students are strongly encouraged to set up text and email notifications in the settings in Brightspace, so they will receive emails and texts about important announcements, due dates for assignments, quizzes, and exams.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

STUDENT RESPONSIBILITIES FOR COURSE

CWID and Password

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@etamu.edu.

Technology-Related Issues

Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a ETAMU campus open computer lab, etc.

TECHNOLOGY REQUIREMENTS AND SUPPORT

Minimal Technical Skills Needed

Students will need reliable computer and internet access for this course. Students must be able to effectively use myLeo email, myLeo Online D2L, and Microsoft Office.

Learning Management System (LMS) – D2L

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are the technical requirements:

- View the [Learning Management System Requirements Webpage](#).
- Learn more on the [LMS Browser Support Webpage](#).

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found on the [Brightspace Support Webpage](#).

COMMUNICATION AND SUPPORT

Interaction with Instructor Statement

If you have any questions or are having difficulties with the course material, please contact your instructor. Correspondence will always be through university email (your “myLeo” mail) and announcements in myLeo online (D2L). You will not RECEIVE email through D2L, so be sure to check your ETAMU email for communication. Students are encouraged to check university email daily.

Include the Following in Emails with Instructor:

- Course name and subject in the subject line
- Salutation (Good afternoon, Dr. Jackson)
- Proper email etiquette (no “text” emails – use proper grammar and punctuation)
- Student name and CWID after the body of the email (possibly add to student signature on email)

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The [Code of Student Conduct](#) is described in detail online in the [Student Guidebook](#).

Students should also consult the [Rules of Netiquette Webpage](#) for more information regarding how to interact with students in an online forum.

ETAMU Attendance

For more information about the attendance policy, please view the [Attendance Webpage](#) and the [Class Attendance Policy](#)

Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty University Procedure 13.99.99.R0.03](#)

[Undergraduate Student Academic Dishonesty Form](#)

[Graduate Student Academic Dishonesty University Procedure 13.99.99.R0.10](#)

[Graduate Student Academic Dishonesty Form](#)

Use of Artificial Intelligence

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their

instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

East Texas A&M University
Velma K. Waters Library Rm 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
Email: studentdisabilityservices@etamu.edu
Website: [Office of Student Disability Services](#)

Nondiscrimination Notice

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information, or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and ETAMU Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M University campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

East Texas A&M Supports Students' Mental Health – Counseling Services

The Counseling Center at East Texas A&M University, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.tamuc.edu/counsel

Mental Health and Well-Being

The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to Telus Health, a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.



As an Institutional Member of the National Association of Schools of Music, East Texas State A&M University supports the Association's commitment to student health and wellness. The following web address provides links to information for resources related to physical and mental well-being, as well as assists in offering preventative measures that students can take to avoid serious and/or chronic conditions: [Musician Health and Safety - East Texas A&M University](#)

Department and Accrediting Agency Statement:

School of Music Mission Statement:

The School of Music at East Texas A&M University promotes excellence in music through the rigorous study of music history, literature, theory, composition, pedagogy, and the preparation of music performance in applied study and ensembles to meet the highest standards of aesthetic expression.