



TEXAS A&M UNIVERSITY

COMMERCE

COURSE CHEM 1305-01L SURVEY OF GENERAL CHEMISTRY I

COURSE SYLLABUS: SPRING 2019

INSTRUCTOR INFORMATION

Instructor: Ms. Patricia Leach
Office Location: STC 344
Office Hours: M 9:00am-1:00pm
Office Phone: 903-886-8765
Office Fax: 903-468-6020
University Email Address: patricia.leach@tamuc.edu
Preferred Form of Communication: e-mail
Communication Response Time: 24 hours

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

- **Text Book:** Introduction to General, Organic, and Biochemistry 11th Edition, Bettelheim, F.A.; Brown, W. B.; Campbell, M. K.; Farrell, S. O.; and Torres, O. M.; Brooks/Cole, Cengage Learning, 2016; ISBN-13: 978-1-285-86975-9. (Tenth edition is acceptable as well).
- **Scientific Calculator** (Cell phones are not allowed on exams).

Course Description

A one semester course, which covers the fundamentals of chemistry, including basic physical principles, and descriptive chemistry of the metals and non-metals. The course is designed to develop and improve the student's ability to think critically and their problem solving ability. Performance in the course reflects the student's mastery of basic general chemistry and also the student's ability to solve scientific problems based

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on available information, and provide the basics for embarking on further work in science. Prerequisites: MATH 1314 or MATH 1324 or MATH 179.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

1. Students should be familiar with the use of their own particular scientific calculator.
2. Students should be able to use the communication tools in the D2L Brightspace LMS.

Instructional Methods

This is a lecture based course. Students will prepare for each lecture by completing reading assignments in the text (specified in the course syllabus). Students' mastery of the reading and lecture material will be evaluated by their performance on homework assignments and exams.

Student Responsibilities or Tips for Success in the Course

Successful students will:

- Complete the reading assignment ahead of the corresponding lecture.
- Attend lecture regularly. Attendance is mandatory.
- Complete the homework assignments and hand them in at the on-time at beginning of the lecture period in which they are due (one week from their assignment or as stated by the instructor).
- Be able to solve the supplemental problems given from the end of each chapter.
- Attend tutoring sessions offered by the University, if needed.
- Write answers to essay type questions in full sentences.
- Attend exams on the dates specified.

GRADING

Final grades in this course will be based on the following scale:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

Assessments

The lab report with the lowest score will be dropped. The average of the remaining ten laboratory exercises will be averaged to determine the final grade. Each laboratory exercise will be evaluated as follows:

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| | |
|-----------------------------|------|
| Homework | 20% |
| Three hour exams (20% each) | 60% |
| Final Exam | 20% |
| <hr/> | |
| Total | 100% |

Incomplete grades will be considered only if the student has completed 70% of the coursework and cannot complete the remainder because of a documented medical or legal excuse or family crisis.

Exams will be given during the lecture period on the following dates:

| | |
|----------|-------------------|
| Exam I | February 11, 2019 |
| Exam II | March 18, 2019 |
| Exam III | April 22, 2019 |

The Final Exam will be given the week of May 6, 2019. The precise date and time will be announced by the University.

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by Texas A&M University-Commerce 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

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

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@tamuc.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

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use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC 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.

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>

Interaction with Instructor Statement

The instructor will respond to student e-mails within 24 hours. E-mail is the preferred method of communication.

The instructor will return graded homework and exams are intended to be graded and returned within one week of their submission, unless otherwise indicated by the instructor.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

- Students should apprise the instructor of any anticipated absences.
- Absence from exams will result in the student receiving a zero unless the instructor has been informed of the anticipated absence in writing with the reason for the absence. Only absences documented in writing for illness, legal issues, or family crises will be excused unless arranged beforehand.
- Exam will be proctored by the instructor and teaching assistants. Students must bring their own scientific calculator to the exam. Cell phones, smart watches, or other devices that have access to the internet or can store information must be turned off and stowed in a bag that is placed on the floor. Taking out any such device indicates the student has completed the exam and a proctor will collect the student's exam.
- A student found committing any form of academic dishonesty (such as copying another student's work on an exam or homework, consulting hidden crib sheets, using an electronic device to access the internet or stored information on an exam, and others) will be result in a zero being recorded for that assignment and will be reported to the Provost's Office for further action on the first instance of such behavior.
- Allowing another student to read exam answers collusion, and will be reported to the Provost's office on the first occasion of such collusion.

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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.

University Specific Procedures

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 in the [Student Guidebook](#).

<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:

<https://www.britannica.com/topic/netiquette>

TAMUC Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

Academic Integrity

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

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

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

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

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

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

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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

Texas A&M University-Commerce

Gee Library- Room 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: studentdisabilityservices@tamuc.edu

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

Nondiscrimination Notice

Texas A&M University-Commerce 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 Texas A&M University-Commerce 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 A&M-Commerce 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.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

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

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COURSE OUTLINE / CALENDAR

| <u>Week:</u> | <u>Date:</u> | <u>Lecture Topic:</u> | <u>Reading*:</u> |
|--------------|--------------|--|------------------|
| 1 | 1/14 | Syllabus, scientific method, measurement | 1-6 |
| | 1/16 | Conversions and density | 12-17 |
| 2 | 1/21 | Martin Luther King, Jr. Day – NO CLASS | |
| | 1/23 | Matter & Energy | 17-32 |
| 3 | 1/28 | Atoms | 32-39 |
| | 1/30 | Periodic Table and Trends | 39-45, 53-56 |
| 4 | 2/4 | Electronic Structure I | 45-50 |
| | 2/6 | Electronic Structure II | 51-53 |
| 5 | 2/11 | Exam I | |
| | 2/13 | Bonding | 63-64, 70-82 |
| 6 | 2/18 | Molecular Geometry | 82-89 |
| | 2/20 | Nomenclature | 61-63, 67-69 |
| 7 | 2/25 | Chemical Reactions I | 91-116 |
| | 2/27 | Chemical Reactions II | |
| 8 | 3/4 | Stoichiometry | 120-128 |
| | 3/6 | Gases, Liquids, Solids | 117-145 |
| 9 | 3/11 | Solutions | 147-166I |
| | 3/13 | Colligative Properties | 166-173 |
| 10 | 3/18 | Spring Break – NO CLASS | |
| | 3/20 | Spring Break – NO CLASS | |
| | 3/25 | Exam II | |
| | 3/27 | Reaction Rates | 175-185 |
| 11 | 4/1 | Equilibrium & Le Chatlier's Principle | 185-198 |
| | 4/3 | Acids & Bases | 200-206 |
| 12 | 4/8 | Acid-Base Equilibrium | 207-222 |
| | 4/10 | pH & Buffers | 222.231 |
| 13 | 4/15 | Nuclear Chemistry | 233-249 |
| | 4/17 | Half-Life | |
| 14 | 4/22 | Exam III | |
| | 4/24 | Nuclear Applications | 249-258 |
| 15 | 4/29 | Hydrocarbons | |
| | 5/1 | Functional Groups | |

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