



Chem 1311 General and Quantitative Chemistry I
COURSE SYLLABUS: Summer I 2020

Instructor: Dr. Bukuo Ni
Office Location: Science 303
Office Hours: Virtual office at D2L or by appointment
Office Phone: 903-886-5382
University Email Address: Bukuo.Ni@tamuc.edu

Course Information

Lectures (Web Based Class): Meets 6/1/2020 through 7/2/2020

Required Textbook: "General Chemistry, 10th Edition, Ebbing, Gammon, Brooks/Cole Cengage Learning, Belmont, CA. ISBN: 978-1285051376. The 8th, 9th or 11th edition of the lecture textbook is also fine for you to use. The 11th edition is the newest addition (and the most expensive edition)

Course description: This course is part of the University Studies core courses and will meet criteria for science credits. This is the first part of a two-course sequence of general chemistry. This course is designed primarily for the students majoring in sciences or in pre-professional programs. Topics covered include the scientific method, characteristics and transformations of matter, atomic theory, chemical reactions, the behavior of gases, an introduction to energy, bonding and shapes of molecules, and intermolecular forces. Chemists deal with these topics every day, but these concepts are also crucially important to other branches of science.

Learning outcomes/Objectives: Upon completion of the course, I intend for my students to have realized a number of objectives. 1. Students will be able to analyze, evaluate, or solve problems when given a set of circumstances, data, text or art. Be able to critically analyze a chemical problem and deduce a solution to the problem utilizing step-wise processes. 2. Students will be able to interpret, test and demonstrate principles revealed in empirical data and/or observable facts. General chemistry requires good algebra skills. By the end of this course, you should be able to utilize algebraic skills to solve chemical problems. 3. In written, oral, and/or visual communication, A&M-Commerce students will communicate in a manner appropriate to audience and occasion, with an evident message and organizational structure. 4. Students will be able to work together toward a shared purpose relevant to the course or discipline with a sense of shared responsibility for meeting that purpose.

Course Requirements (Minimal Skills Needed Prerequisite): The student must have completed Math 1314 or be concurrently enrolled in math 142. Students who had adequate high school preparation in mathematics or were exempted from Math 1314 will be allowed to enroll with the instructor's consent. Concurrent enrollment of Math 1314 with CHEM 1311 generally is not encouraged. Students who are currently enrolled in math remediation courses such as Math 131 will not be eligible for enrollment in CHEM 1311.

Student Responsibilities or Tips for Success in the Course: This is an online class therefore attendance is flexible! You are required to access D2L while you participate various activities. Your regular participation activities, login times, visit time spent will be checked regularly. You are strongly encouraged to log into the course several times a unit. Excessive “absence” in online activities may result in loss of points (including in your overall performance points).

Pointers to Succeed 1. The lectures in this course will cover Chapters 1 through 11 of the assigned textbook. This material will be covered at the rate indicated by the Tentative Class Schedule. Be sure to read the textbook ahead 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. Finish your homework promptly. Working the problems will help you succeed in the course. The more problems that you work the better prepared you will be for exams. Recommended HW problems and examples: I recommend working as many chapter end problems in the textbook as you can. The answers to the odd numbered problems can be found in the appendix of your textbook. If you can answer the odd numbered questions correctly, this will be a good indication that you understand the material and that you should be able to find success in the course.

Grading The grade for this course will be derived as follows:

Homework/quiz: 10% of lecture grade

Four partial exams: 80% of lecture grade

Final comprehensive exam: 10% of lecture grade

Your performance and final grade in the lecture will be evaluated on the basis of total points earned. The distribution of points will be based on the following: Homework and quiz (10 points), which will be assigned and discussion throughout the semester. Four partial exams and one comprehensive final exam will carry 80 points and 10 points, for a total of 90 points. The final letter grade will be based on a standard scale 85-100% A, 75-84% B, 60-74% C, 45-59% D, and below 45% F. The grades may be curved, if warranted.

There will be absolutely no make-ups for exams and quizzes. If you miss an examination, you will be assigned a zero for that assignment. Homework not submitted on time may receive a grade of zero.

Tentative Lecture Schedule

Week starting	Chapter	Topics
June 1	Chapters 1, 2 and 3	Chemistry and Measurement/Atoms, Molecules, and Ions/Chemical Formulas and Equations
June 8	Chapters 4 and 5	Exam 1, Chapters 1-3, Monday 8 th Chemical reactions/The gaseous state
June 15	Chapters 6 and 7	Exam 2, Chapters 4-5, Monday 15 th Thermochemistry/Quantum Theory of the Atom
June 22	Chapters 8, 9 and 10	Exam 3, Chapters 6-7, Monday 22 nd Electron Configuration and periodicity/ionic and covalent bonding/molecular structure
June 29	Chapters 10 and 11	Exam 4, Chapters 8-10, Tuesday 30 th States of Matter Exam 5, Chapters 1-11, Thursday, July 2 nd

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 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

Communication: If the instructor needs to contact an individual student, it will be via the student's Texas A&M –Commerce email account.

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: [Netiquette http://www.albion.com/netiquette/corerules.html](http://www.albion.com/netiquette/corerules.html)

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>

ADA Statement

Students with Disabilities

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

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.