



CHEM 1411.222CL
General Chemistry 1
Fall 2021

Monday from 6:00 PM to 8:50 PM in STEAM 342
Wednesday from 6:00 PM to 8:50 PM in STEAM 346

Instructor Information:

Name: Dr. Britt E. Price, PhD
Office: STEAM 325-31
Email: bprice4@com.edu
Phone: 409-933-8368

Student (Office) hours and location:

Locations and Times: Available through email or contact me to meet in Microsoft Teams
Monday & Wednesday from 12:00 PM to 1:30 PM in STEAM 325-31
Tuesdays & Thursdays from 1:30 to 4:00 PM in STEAM 325-31

Required Textbook/Materials: The textbook and homework system are part of the inclusive access and are available immediately upon access to Blackboard at the start of the semester.

Required Textbook: [Chemistry Atoms First, 2nd ed.](#) from OpenStax, 2019. Openstax.Org. Print Book ISBN-13 978-1-947172-64-7, PDF Version ISBN 978-1-947172-63-0,
<https://openstax.org/details/books/chemistry-atoms-first-2e>.

Good news, your textbook for this class is immediately available for free online! If you prefer, you can also get a print version at a very low cost. Your book is available in web view and PDF for free. You can also choose to purchase on iBooks or get a print version via the campus bookstore or from OpenStax on Amazon.com.

You can use whichever formats you want. Web view is recommended since the responsive design works seamlessly on any device. If you buy on Amazon, make sure you use the link on your book page on openstax.org so you get the official OpenStax print version. (Simple printouts sold by third parties on Amazon are not verifiable and not as high-quality.)

Textbooks and/or courseware is available through VitalSource digitally. Cost of the course materials for this section is \$43.40. The course materials are available on the first day of class and you will be given the opportunity to opt-out of the e-book prior to the census day of the class. If you choose not to use the course materials, you will be reimbursed after census day of the class. The materials are not refundable after the census day.

Required Homework System: Achieve Macmillan Learning homework system is an Internet based homework, testing, and content management system. Instructions for creating a Achieve Macmillan Learning homework system account and registering for the course are provided in the Course Information page located in Blackboard.

Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments. During sign up or throughout the term, if you have any technical problems or grading issues, go to [Achieve Support](#) to look at support articles or chat with a member of the support team at [Achieve Chat](#). The Achieve Macmillan Learning support team is almost always faster and better able to resolve issues than your instructor.

Additional Materials: An inexpensive scientific calculator (e.g., TI-30). There are free apps for your mobile devices. [However, you will not be able to use those on exams.]

Computer Requirements: You will need to have access to a computer with the following resources.

- Internet access through a wired Ethernet connection
- A contemporary web browser capable of viewing flash video
- Java installed and updated
- An [e-mail account](#) (COM provides free email for students)
- [Microsoft Office, Microsoft OneNote, and Microsoft Teams](#) (COM offers free Office 365 access for students)
- [Vernier Graphical Analysis](#) (Vernier offers free software for students)
- File conversion software for converting image files to PDF files ([Microsoft Office Lens](#), [Adobe Scan](#), and [Genius Scan](#) are free for both Android and iOS)
- A PDF reader like [Adobe Reader](#)

You are responsible for maintaining your own hardware and software. If you are incapable of maintaining your own system, please consider taking this class when use of campus computers has been restored.

Course Description: Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Basic laboratory experiments supporting theoretical principles presented in lecture; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

Course Requirements: Students are expected to meet the following course requirements.

Stay Current: You will use the Course Outline, the online calendar, the discussion forums, communication with your instructor, and communication with your classmates to stay abreast of course scheduling.

Meet Learning Objectives: You will cover the course material listed in the Student Learning Objectives by accessing information from the textbook, from Sapling Learning, from the Internet, from the Library, and from other resources, as needed.

Stay in Communication: You will maintain communication with your classmates and instructor, as needed. Typical methods for communicating include interpersonal communication, email, text messaging, instant messaging, and discussion forum postings.

Complete Assessments: Your knowledge of the material covered in the Student Learner Outcomes is assessed using Now You Try It, online homework, exams, and laboratory experiments.

- Now You Try It [NYTI]

Following each lecture an assignment in which you are asked about some aspect of the lecture will be posted. These assignments may involve writing some type of explanation, categorization, or mathematical problem. Individually each assignment will be worth 20 points. The lowest score will be dropped from the calculation of the overall NYTI score. The overall NYTI score will be calculated by dropping the lowest assignment score and the total sum of the remaining scores will be scaled to be worth a maximum of 125 points.

- Chapter Homework

There will be ten Chapter Homework Assignments given during the semester. The Chapter Homework Assignments, designed and administered to promote mastery of the selected Student Learner Outcomes, are given online through Achieve Macmillan Learning. These open book assignments allow you to reference your course materials and Internet resources during the assessment.

Once started, you will have until the deadline to complete and submit your attempt. The system is an adaptive learning module that allows for multiple attempts and is designed to help you master the concepts and calculations of the material. The purpose of allowing the additional attempts while answering the questions is to promote mastery of the material. By learning from mistakes made during the initial attempt you will have an opportunity to correct misconceptions and demonstrate mastery of the material. This will also help prepare you for the exams.

The tests are composed of calculation, matching, multiple choice, and true/false questions. The topics for the assignments correspond to the Chapter topics:

Chapter 1	Essential Ideas
Chapter 2	Atoms, Molecules, and Ions
Chapter 3	Electronic Structure and Periodic Properties of Elements
Chapter 4	Chemical Bonding and Molecular Geometry
Chapter 5	Advanced Theories in Bonding
Chapter 6	Composition of Substances and Solutions
Chapter 7	Stoichiometry of Chemical Reactions
Chapter 8	Gases
Chapter 9	Thermochemistry

Each Chapter Homework Assignments is worth a maximum of 25 points. The overall Chapter Homework Assignments score will be calculated by dropping the lowest assignment score and the total sum of the remaining scores will be scaled to be worth a maximum of 125 points.

- Semester Exams

There will be three Semester Exams given during the semester. The questions on these exams may be composed of calculation, matching, multiple choice, short answer, free response and true/false formats.

The First Semester Exam is designed and administered to evaluate retention of course content for the material covered in Chapters 1 through 3.

The Second Semester Exam is designed and administered to evaluate retention of course content for the material covered in Chapters 4 through 6.

The Third Semester Exam is designed and administered to evaluate retention of course content for the material covered in Chapters 7 through 9.

Each exam is worth a maximum of 100 points. No make-up exams will be offered.

- Final Exam

There will be one cumulative exam given at the end of the semester. It covers content from all ten Chapters. The format of Final Exam will be much the same as the semester exams. The questions on these exams may be composed of calculation, matching, multiple choice, short answer, free response and true/false formats.

The Final Exam is designed and administered to evaluate your knowledge of the Student Learner Objectives for this course. The topics for the Final Exam correspond to Student Learner Objectives one through thirteen. The exam will be scheduled during Finals week at the end of the semester. It is worth a maximum of 150 points.

- Laboratory Grade

Chemistry is primarily a "wet" science. The laboratory sessions are a necessary component of learning chemistry. Laboratory experiments will allow students to practice skills and make observations of concepts, theories, and laws. Given the hands-on nature of the laboratory, participation in this portion of the course is crucial. The face-to-face laboratory sessions provide an opportunity to demonstrate your ability to safely perform the experiment, physically manipulate the equipment, make experimental observations, and work cooperatively with your lab Group. Each student must successfully complete 70% or more of all laboratory assignments to pass the laboratory portion. Failure to complete 70% or more of the laboratory assignments will result in a failing laboratory grade and a failing grade for the course. Students must also earn a 70% or higher for the laboratory portion of the course.

Rules of conduct for the laboratory must be followed to reduce the risk of injury. Failure to follow the safety rules will result in your dismissal from the course. To help ensure that each student is familiar with laboratory safety, all students are required to complete Experiment 1: Chemistry Laboratory Safety before performing subsequent labs. If a student misses their scheduled lab time for Experiment 1, they will be complete the activity during the second scheduled laboratory session. The student will then earn a 0 for Experiment 2.

Students are required to read the appropriate laboratory experiment and be prepared before the start of each laboratory session. Any special instructions, techniques or changes to the procedure will be discussed prior to the start of or during the experiment. Failure to be prepared for the laboratory session may delay or prevent you from performing the experiment.

The laboratory component will allow students to practice skills and make observations of concepts, theories, and laws. All lab components should be discussed with classmates to foster collaboration and develop teamwork.

Successful completion of a laboratory assignment involves the completion and submission of the Pre-lab Assignment and of the Lab Report.

Pre-lab Assignments require students to work either individually or cooperatively, in lab Groups (i.e., teams), to achieve the following outcomes.

- Read the lab background information or introduction
- Read the lab procedure.
- Answer questions concerning concepts and procedures from the lab experiment.
- Submit the completed assignment *before* starting the experiment.

Lab Reports are assignments comprised of the Lab Procedures and the Post-lab Assignments.

Lab Procedures require that students work either individually or cooperatively, in lab Groups (i.e., teams), to achieve the expected outcomes.

Expected outcomes for face-to-face labs:

- Successfully complete the lab within the duration of the lab period.
- Clearly and concisely record data and observations on the data sheets for the lab experiment.
- Perform the necessary calculations and interpretations.
- Interpret the results of the any calculation using that data or data provided for that purpose.
- Answer questions concerning concepts, theories, and laws illustrated in the experiment.
- Submit the completed assignment as scheduled.

Expected outcomes for online labs:

- Clearly and concisely record data and observations.
- Create the necessary graphs from the observed data.
- Perform the necessary calculations.
- Interpret recorded data and observations, generated graphs, and calculated values.
- Report conclusions from interpreted data and observations, graphs, and calculations.
- Submit the completed assignment as scheduled.

Post-lab Assignments require that students work independently or cooperatively, in lab Groups (i.e., teams), to achieve the following outcomes.

- Perform calculations based on the experiment.
- Interpret the data based on the experiment.
- Interpret the results of the any calculation using that data or data provided for that purpose.
- Answer questions concerning concepts, theories, and laws illustrated in the experiment.
- Submit the completed assignment as scheduled.

The Laboratory Reports are designed to achieve the following outcomes.

- Provide an overview of the pre-existing work associated with the experiment.
- Summarize the data collected and observations recorded in the experiment.

- Present the data and observations in a more accessible and readable format.
- Present the interpretations of the data and observations.
- Contribute to the existing knowledge.

Each Lab Assignment will be worth a maximum of 100 points as determined from the sum of the points for the pre-lab assignment and the lab report. The Laboratory Score is calculated as the simple average of the lab report scores that remain after dropping the lowest score scaled to 200 points.

- Syllabus Quiz – Bonus
At the start of the semester there is a syllabus quiz. The role of this quiz is to help you become familiar with the contents of the course syllabus at the start of the semester. Students can work independently or collaboratively on the quiz.
- Surveys & Course Evaluation – Bonus
There will be surveys this semester that provided through Blackboard. The surveys are to help your Instructor improve the design of the course and to address any issues either with content or navigation.
There is a single COM Course Evaluation which is administered by the College through CoursEval. Each survey is anonymous.

Extra Practice

- Self-assessments
There will be self-assessments, one or more for each Chapter, available during the semester. These will be provided online through the Achieve Macmillan Learning system. These self-assessments are designed and administered to promote mastery of course objectives addressed in each Chapter from your textbook. These are *self-assessments that are not directly factored into your grade* calculation.
- Suggested Problems
There will be practice questions and problems posted in Blackboard along with worked out answer keys. These are designed to reinforce concepts and problem-solving skills introduced in lecture. These are *self-assessments that are not directly factored into your grade* calculation.

Determination of Course Grade/Detailed Grading Formula: Your grade for the course is determined by the scores that you earn on the assignments and assessments. The points you earn for this course are the sum of the points earned in each grading categories. Your final grade is then calculated as a percentage of points earned vs the total possible points.

Now You Try It (NYTI)

- Each NYTI is worth a maximum of 20 points.
- The lowest NYTI score will be dropped.
- The percentage of the remaining scores will be calculated.
[[Total points earned) / (Total points possible)] x 100
- The percentage is then scaled to 125 points.

Chapter Homework Assignments

- Each assignment is worth a maximum of 25 points.
- The lowest homework assignment will be dropped.
- The percentage of the remaining scores will be calculated.
[[Total points earned) / (Total points possible)] x 100
- The percentage is then scaled to 125 points.

Semester Exams

- Each exam is worth a maximum of 100 points.
- IF the percentage on the Final Exam is higher than the lowest semester exam, the lowest semester exam grade will be replaced with the percentage earned on the final exam.

	Exam #1	Exam #2	Exam #3	Final Exam %	Total (300)
Case I	82	80	91	75 (lowest)	= 82 + 80 + 91 = 253
Case II	89	76	45 (lowest)	78	= 89 + 76 + 78 = 243
Case III	67	0 (lowest)	72	79	= 67 + 72 + 79 = 218

- The semester exam portion is worth a possible total of 300 points.

Final Exam Grade

- The Final Exam is worth a maximum of 150 points.

Lab Grade

- Each lab assignment is worth a maximum of 100 points.
- Lab assignment score is the sum of the pre-lab assignment and the lab report.
- The lowest lab assignment score will be dropped.
- The percentage of the remaining scores will be calculated.
[[Total points earned) / (Total points possible)] x 100
- The percentage is then scaled to 200 points.

You can keep track of your earned points on Blackboard and Sapling Learning through the Grades link. The above categories will be listed in the online grade book in Blackboard. Chapter homework assessment grades will be immediately released and are available in Sapling Learning. All other grades will be released as they become available. If you have any questions concerning your grade, please contact me through your COM email account. To save us both time when contacting me, include your course code in the subject line (ie 1411.101), clearly state the question, the assessment and other orienting information, and the nature of your concern. The maximum total points that can be earned for the course is calculated by summing the weighed percentages of the grading categories.

Category	Possible Points	Percentage
Now You Try It	125	13.9 %
Chapter Homework	125	13.9 %
Semester Exams	300	33.3 %
Final Exam Grade	150	16.6 %
Lab Grade (See the Lab Science Policy)	200	22.2%
Survey Grade (Bonus)		
Syllabus Quiz Grade (Bonus)		
Total Points with Bonus	900	100 %

Grading Scale: The table contains the grading scale applied to the points calculation previously described.

FN — An FN may be assigned at the discretion of the instructor in accordance with college policy.

I — An incomplete may be assigned at the discretion of the instructor in accordance with college policy.

W — A withdrawal may be assigned in accordance with college policy.

Letter Grade	Final Average
A	89.5 – 100
B	79.5 – 89.4
C	69.5 – 79.4
D	59.5 – 69.4
F	< 59.5

Lab Science Policy:

The grade for this course consists of both a lecture and laboratory component. Students must meet two criteria in the laboratory component to successfully pass the course.

1. Students must earn a 70% or better in the laboratory component to successfully pass the course. Earning less than 70% in the laboratory component will result in an F for the course regardless of the lecture grade. Passing the laboratory component and failing the lecture component will not guarantee a passing grade for the course.
2. Each student must successfully attend and complete 70% or more of all laboratory assignments to pass the laboratory portion. Failure to attend and complete 70% or more of the laboratory assignments will result in a failing laboratory grade and in an F for the course regardless of the lecture grade.

Deviations from this policy will be at the sole discretion of the instructor.

Late Work, Make-Up, and Extra-Credit Policy:

This course is designed to accommodate some of life's mishaps, difficulties, or tragedies by providing extended deadlines for NYTI, homework and lab assignments. Semester exams, the course evaluation through CoursEval and the Final Exam are exceptions. After the initial due date, there may be an extended deadline to submit your assessment or assignment. After the extended deadline, the

assignment or assessment is closed, and the link may be removed. Expect that no additional time will be provided.

The NYTI and lab assignments have a 48-hour extension beyond the due date with a loss of 5% per day. After the extended deadline has passed those assignments and assessments are closed.

The homework assignments have an extended deadline of seven days with a loss of 5% per day. After the extended deadline has passed, expect that the assignment will be closed, and the points are forfeited.

If this provides insufficient accommodation, then the severity of life's mishap, difficulty, or tragedy is beyond the capacity of this course. Anyone experiencing such difficulty should consider withdrawing from the course and taking it after the difficulty has passed.

Attendance Policy:

All students registered in this class are expected to attend all face-to-face sessions. This policy follows the attendance policies prescribed in the current College Catalog (<http://coursecatalog.com.edu/>).

Students must earn a 70% or better in the laboratory component to successfully pass the course. Additionally, students must successfully attend and complete 70% or more of all laboratory assignments to successfully pass the course.

Failing to attend class, log into Blackboard and Achieve Macmillan Learning, or to complete your work as scheduled demonstrates poor progress towards obtaining the course goals (objectives) and is detrimental to learning course material. If you fail to attend class or fail to log into Blackboard or Achieve Macmillan Learning and are demonstrating poor progress towards obtaining the course goals (objectives), the instructor *may* administratively withdraw you from the course. Examples of insufficient progress include, but are not limited to, failure to log into Blackboard for a one-week period, failure to submit four or more assignments by the deadlines for those assignments, failure to attend and complete 70% or more of the labs, failure to maintain a passing average for the class, or demonstrating poor progress towards obtaining the course goals (objectives). Let's say a student may log into the course multiple times a week but fails to complete or attempt the course evaluations. Since they have failed to demonstrate knowledge of the material through evaluation, this student has demonstrated poor progress towards obtaining the course objectives. Another scenario is a student that is attending (completing) less than 70% of the lab sessions. Since they have failed to attempt lab procedures evaluated through the performance lab procedure, this student has demonstrated poor progress towards obtaining the course objectives. In both cases, the student may be administratively withdrawn from the course. An administrative withdrawal for insufficient progress is solely at the discretion of your Instructor.

An estimate of the time per week that is necessary to successfully complete the course will vary with the expected or desired outcome by the student, the pre-existing skills and knowledge possessed by the student, the ability of the student to acquire and assimilate the course content, and the time required by the student to complete the assignments. A long-standing estimate is to multiply the number of lecture credit hours for a course by 2 or 3 and lab credit hours by 1 or 2. For this four-hour credit course of 3 lecture credits and 1 lab credit, that result is 7 to 11 hours. Thus, one should expect to spend 3 hours

for the lecture component, plus 3 hours for the lab component, plus 7 to 11 hours studying per week on this course. Don't take my word for it, here are some links that validate this calculation.

Semester Survival Guide by Blinn College: <https://www.blinn.edu/academic-advising/survival-guide.html>

How Many Hours a Day Do You Have to Study for College Classes? by M.T. Wroblewski: <http://oureverydaylife.com/many-hours-day-study-college-classes-4165.html>

How Much Time Should I Spend Studying in College? by Kelci Lynn Lucier: <http://collegelife.about.com/od/academiclife/f/How-Much-Time-Should-I-Spend-Studying-In-College.htm>

Manage Your Time by HowtoStudy.com: <http://www.howtostudy.com/manage-your-time/>

Of course, mileage will vary and there are no guarantees that this will result in the desired outcome.

Communicating with your instructor: ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. (Faculty may add additional statement requiring monitoring and communication expectations via Blackboard or other LMS)

The best way to reach your instructor is by email. Please use your @com.edu email address. Expected that mails from other sources will be filtered from my inbox and you will receive no reply. If you prefer to meet with me virtually, please make an appointment. I will strive to reply to emails from @com.edu addresses, which are made on weekdays, within twenty-four hours. Expect that I will be unavailable on weekends. Please *include your course and section number in the subject line*. Replies to voice messages left on my office telephone will take longer for me to reply than an email. Also, I will most likely reply to a voice message by email. So, if you don't mind waiting an extended time for my reply, leaving a voice message is another option.

Student Learner Outcomes	Maps to Core Objectives	Assessed via this Assignment
1. Define the fundamental properties of matter.	CT	Selected Exam Questions
2. Classify matter, compounds, and chemical reactions.	CT CS	Selected Exam Questions Presentation
3. Determine the basic nuclear and electronic structure of atoms.	CT	Selected Exam Questions
4. Identify trends in chemical and physical properties of the elements using the Periodic Table.	CT	Selected Exam Questions
5. Describe the bonding in and the shape of simple molecules and ions.	CT	Selected Exam Questions
6. Solve stoichiometric problems.	EQS	Selected Exam Questions
7. Write chemical formulas.	CT	Selected Exam Questions
8. Write and balance equations.	CT	Selected Exam Questions
9. Use the rules of nomenclature to name chemical compounds.	CT	Selected Exam Questions

Student Learner Outcomes	Maps to Core Objectives	Assessed via this Assignment
10. Define the types and characteristics of chemical reactions.	CT	Selected Exam Questions
11. Use the gas laws and basics of the Kinetic Molecular Theory to solve gas problems.	EQS	Selected Exam Questions
12. Determine the role of energy in physical changes and chemical reactions.	CT	Selected Exam Questions
13. Convert units of measure and demonstrate dimensional analysis skills.	EQS	Selected Exam Questions
14. Use basic apparatus and apply experimental methodologies used in the chemistry laboratory.	TW	Selected Experiment Grades
15. Demonstrate safe and proper handling of laboratory equipment and chemicals.	CT	Selected Experiment Grades
16. Conduct basic laboratory experiments with proper laboratory techniques.	TW	Selected Experiment Grades
17. Make careful and accurate experimental observations.	EQS	Selected Experiment Grades
18. Relate physical observations and measurements to theoretical principles.	EQS	Selected Experiment Grades
19. Interpret laboratory results and experimental data, and reach logical conclusions.	CT	Selected Experiment Grades
20. Record experimental work completely and accurately in laboratory notebooks and communicate experimental results clearly in written reports.	CS	Laboratory Report Grade
21. Design fundamental experiments involving principles of chemistry.	CT	Selected Experiment Grades
22. Identify appropriate sources of information for conducting laboratory experiments involving principles of chemistry.	CT	Selected Experiment Grades
23. Demonstrate the ability to work effectively with others to support and accomplish a shared goal, while recognizing and respecting different viewpoints.	TW	Lab Grade

Academic Dishonesty: Any incident of academic dishonesty will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty, such as cheating on exams, plagiarism, or collusion, is an extremely serious offense and will result in at least a grade of zero on that assignment and the student will be referred to the Office of Student Conduct for the appropriate disciplinary action. Additionally, administrative withdrawal from the course prior to the withdrawal deadline for the semester or being assigned a grade of F after the withdrawal deadline are possible and solely at the discretion of your Instructor.

Student Concerns: If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Ms. Sheena Abernathy, Science Department Chair, at 409-933-8330/sabernathy@com.edu.

Tentative Course Outline: Use this course outline and tentative class schedule to schedule your course activities for the semester.

Week		Reading Assignments
1	<ul style="list-style-type: none"> • Course Intro • Achieve Macmillan Learning • CH 1 Essential Ideas • Experiment 1: Safety in the Chemistry Lab 	<ul style="list-style-type: none"> • Read Me First • Syllabus • Achieve Access Directions • CH 1 • Experiment 1
2	<ul style="list-style-type: none"> • CH 1 Essential Ideas • CH 2 Atoms, Molecules, and Ions • Experiment 2: Weight and Volume 	<ul style="list-style-type: none"> • CH 1 & 2 • Experiment 2
3	<ul style="list-style-type: none"> • CH 2 Atoms, Molecules, and Ions • CH 3 Electronic Structure and Periodic Properties of Elements 	<ul style="list-style-type: none"> • CH 2 & 3 • <i>NO LAB</i>
4	<ul style="list-style-type: none"> • CH 3 Electronic Structure and Periodic Properties of Elements • Experiment 3: Density and Graphing 	<ul style="list-style-type: none"> • CH 3 • Experiment 3
5	<ul style="list-style-type: none"> • CH 4 Chemical Bonding and Molecular Geometry • Experiment 4: Separating the Components of a Ternary Mixture 	<ul style="list-style-type: none"> • CH 4 • Experiment 4
6	<ul style="list-style-type: none"> • Exam 1 (CH 1-3) – in Lab • CH 4 Chemical Bonding and Molecular Geometry • CH 5 Advanced Theories of Bonding • Experiment 5: The Periodic Table 	<ul style="list-style-type: none"> • CH 1-3 • CH 4 & 5 • Experiment 5
7	<ul style="list-style-type: none"> • CH 4 Chemical Bonding and Molecular Geometry • CH 5 Advanced Theories of Bonding • Experiment 6: Spectroscopy 	<ul style="list-style-type: none"> • CH 4 & 5 • Experiment 6
8	<ul style="list-style-type: none"> • CH 5 Advanced Theories of Bonding • CH 6 Composition of Substances and Solutions • Experiment 7: Lewis Structures and The Shapes of Molecules 	<ul style="list-style-type: none"> • CH 5 & 6 • Experiment 7
9	<ul style="list-style-type: none"> • CH 6 Composition of Substances and Solutions • CH 7 Stoichiometry of Chemical Reactions • Experiment 8: Verifying the Formula of Magnesium Oxide 	<ul style="list-style-type: none"> • CH 6 • Experiment 8
10	<ul style="list-style-type: none"> • Exam 2 (CH 4-6) – in Lab • CH 7 Stoichiometry and Chemical Reactions • Experiment 9: Types of Chemical Reactions 	<ul style="list-style-type: none"> • CH 4-6 • CH 7 • Experiment 9
11	<ul style="list-style-type: none"> • CH 7 Stoichiometry and Chemical Reactions • CH 9 Thermochemistry • Experiment 10: Qualitative Exothermic and Endothermic Processes 	<ul style="list-style-type: none"> • CH 7 & 8 • Experiment 10 • Experiment 11
12	<ul style="list-style-type: none"> • CH 9 Thermochemistry • Experiment 11: Stoichiometry Lab 	<ul style="list-style-type: none"> • CH 8 • Experiment 10 • Experiment 11
13	<ul style="list-style-type: none"> • CH 9 Thermochemistry • CH 8 Gases • Experiment 12: Thermodynamics 	<ul style="list-style-type: none"> • CH 8 & 9 • Experiment 12
14	<ul style="list-style-type: none"> • CH 8 Gases 	<ul style="list-style-type: none"> • CH 9 • <i>NO LAB</i>
15	<ul style="list-style-type: none"> • Exam 3 (CH 7-9) – in Lecture Room • Experiment 13: Behavior of Gases 	<ul style="list-style-type: none"> • CH 7-9 • Experiment 13
16	<ul style="list-style-type: none"> • FINAL EXAM 	<ul style="list-style-type: none"> • Review of CH 1-9

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook. <https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.* https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact Holly Bankston at 409-933-8520 or hbankston@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Counseling Statement: Any student needing counseling services is requested to please contact Holly Bankston in the student success center at 409-933-8520 or hbankston@com.edu. Counseling services are available on campus in the student center for free and students can also email counseling@com.edu to set up their appointment. Appointments are strongly encouraged; however, some concerns may be addressed on a walk-in basis.

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is October 6. The last date to withdraw from the 16-week session is November 19. The last date to withdraw for the 2nd 8-week session is December 2.

F_N Grading: The F_N grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The F_N grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the F_N grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an F_N grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the

Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

COVID-19 Statement: All students, faculty, and staff are expected to familiarize themselves with materials and information contained on the College of the Mainland's Coronavirus Information site at www.com.edu/coronavirus. In compliance with Governor Abbott's May 18 Executive Order, face coverings/masks will no longer be required on COM campus. Protocols and college signage are being updated. We will no longer enforce any COM protocol that requires face coverings. We continue to encourage all members of the COM community to distance when possible, use hygiene measures, and get vaccinated to protect against COVID-19. Please visit com.edu/coronavirus for future updates.

Technology Outage: Students are responsible for maintaining their hardware, software, and Internet connection to the course. Expect that no additional time will be provided for hardware, software, or Internet connection problems that interfere with your ability to access the course and complete your assignments and assessments.

If a verifiable interruption in the access to the Course Management System that lasts for fifteen minutes or longer and occurs within twenty-four hours of an assignment or assessment, the deadline for the assignment or assessment may be extended at the discretion of your instructor.

Revisions: Your instructor reserves the right to revise this syllabus to accommodate changes in the course that may occur during the semester. If any changes to this syllabus occur during the semester, students will be provided with an announcement of those changes and will be given access to a description of those changes.

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