Chemistry 1406.221HY
Introductory Chemistry 1
Summer 2021 – 5W
Monday - Thursday from 17:30-18:30 in STEM Building Room 346
Online through Blackboard and Sapling

Instructor Information:
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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.

The best way to reach me is by email. Please use your @com.edu email address. Emails from other sources may be delayed or filtered from my inbox. This may delay or prevent my reply to your email. Reply to emails from external email addresses will be through your @com.edu email address. If you prefer to meet with me virtually, please make an appointment. I will strive to reply to emails from @com.edu addresses and questions from forum posts, which are made on weekdays, within twenty-four hours. Expect that I will be unavailable on weekends. 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 (Office) hours and location:
Office Location: Virtual Office through Microsoft Teams
Office Hours: Monday- Thursday Wednesdays from 17:00 to 17:30 in STEM building room 346. For other times, please contact me to schedule a mutually convenient time. We can meet using the video conferencing available in Microsoft Teams.

Required Textbook: Davidson, C. *Chemistry: Fundamentals and Principles*. Sapling Learning: Austin, TX, 2011.

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.

The Davidson textbook is bundled with the Sapling Learning homework system that is required for this course. Any college-level Introductory Chemistry or General, Organic, and Biochemistry textbook can be used as a supplemental reference.

Sapling Learning is an Internet based homework, testing, and content management system. Instructions for creating a Sapling Learning account and registering for the course are provided in the Read Me First 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, send an email to support@saplinglearning.com explaining the issue. The Sapling Learning support team is almost always faster and better able to resolve issues than your instructor.

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.

Required Materials: An inexpensive scientific calculator (e.g., TI-30). You most likely have one on your cellphone.

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 and Microsoft Teams (COM offers free Office 365 access for students)
- Respondus LockDown Browser (COM provides this browser through a link on the Blackboard login page)
- Vernier Graphical Analysis (Vernier offers free software for students)
- A PDF 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: Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for allied health students and for students who are not science majors.

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 online discussions, online homework, a presentation, exams, and laboratory experiments.
    - Blogs

      There will be four graded blogs. Each one corresponds to a Course SLO (Student Learner Outcome) that will be addressed on the final exam. This group project is designed to develop a study resource for the topics covered on the final exam.

      The topics for the blogs correspond to the following Student Learner Objectives:

      SLO 1. Identify and express the terminology used in chemistry, the nomenclature of inorganic and selected organic substances, and the physical and chemical properties of inorganic and selected organic substances.
      SLO 2. Recognize the fundamental facts, principles, theories, laws, and concepts necessary for further studies in science and related subjects.
      SLO 3. Categorize the structure, states, and physical and chemical properties of matter.
      SLO 4. Solve basic chemistry problems, conversions and calculations.

      Each student will create two questions with answers and feedback for each of the four SLOs. Each blog is worth a maximum of 25 points. The sum of the four blog scores is the Blog Grade which is worth a maximum of 100 points.

    - Discussion Forums

      There will be four graded discussion topics posted during the semester. Each topic will be available for a limited time during the semester. The first and fourth Discussion Forums are meant to be an open discussion based on the intersection between chemistry and your interests and opinions. The second and third Discussion Forums are meant to be an academic discourse focusing on the topic and using research and references to support your position.

      For both type of posts, your response to the topic should address the topic and not contain gratuitous, tangential, or spurious comments. Replies in response to posts by other students should address the content and position of that post. Responses containing gratuitous, tangential, or spurious comments are unwelcome. Postings that are composed of complete sentences, that clearly address the topic, and that contain proper citation(s) are graded more favorably than jotted noted, incomplete thoughts, and undocumented claims.

      1. The first discussion topic is designed to introduce you to the Discussion Forums and to determine your motivation for taking the course.

2. The second topic is a discussion of the metric system and the attempts by the United States to convert to the metric system.
3. The third discussion topic will focus on the many ways that chemistry impacts your life.
4. The fourth discussion topic attempts to determine what parts of the course that you found most valuable.

Students are encouraged to make multiple posts to a topic as they learn more about the topic or to respond to posts by other students. You can accumulate points, up to the maximum points per discussion topic, by making multiple unique posts to a topic or in response to the post from another student. The directions for each forum describe how points are earned for that forum. The first forum and the third forum are each worth a maximum of 10 points and the second and third forums are worth a maximum of 40 points. Your Discussion Postings Grade is the sum of the four Discussion Forum grades; it is worth a maximum of 100 points.

- Presentation

There is one Online Presentation for this semester. It consists of three parts.

1. Selection and assignment of the presentation topic.
2. Researching the presentation topic
3. Creating and submitting the presentation.

Each student will select a pre-approved topic, plus two alternates, from a description or list of topics posted to the Presentation Selection Discussion Forum. By posting to the forum, you will time stamp the selection of your topic. After the deadline for the topic selection has past, your Instructor will confirm the topic by posting a list of topic assignment on the course web site. Topics are assigned based on the chronology of the posts. Any student that fails to submit a selection post to the forum by the deadline will be assigned a topic by your Instructor. Selecting a topic, selecting two alternate topics, and making a post of that selection with those two alternates by the deadline for submission is worth a maximum of 5 points.

Once the assigned topic is verified, the grading rubric should be reviewed. This will be used to provide direction in researching and creating the presentation and to determine the scoring for the components of the presentation. Then, for the second step, research the element based on content required for the presentation that is found in the rubric for the presentation. Since this section of Introductory Chemistry has an emphasis for allied health and non-science majors, either the APA style or the MLA style is used to cite references.

Next, the presentation is developed using Microsoft PowerPoint. The completed presentation should adhere to the directions and rubric. The completed presentation will be uploaded as an attachment to the assignment before the deadline. Be certain to verify your attachment before submitting your assignment. The presentation is worth a maximum of 95 points. Unless arrangements are made with the instructor, presentations

turned in as an attachment to an email will be deducted 10 points from the presentation score.

The Presentation Grade, which is composed of the sum of the Presentation Selection Discussion Forum and the Presentation, is worth a maximum of 100 points.

- Homework Self-Assessment

  There will be twelve Homework Sets available during the semester. The Homework Sets are provided online through the Sapling Learning system. These Homework Sets are designed and administered to promote mastery of course objectives addressed in each chapter from your textbook. Once started, you will have until the deadline to complete and submit your attempt. The system 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 in 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 topics for the Homework Sets correspond to the material from the textbook:

  Unit 1. The Study of Chemistry
  Unit 2. The Nature of Matter
  Unit 3. Measurement and Conversions
  Unit 4. Atomic Structure
  Unit 5. The Periodic Table
  Unit 6. Chemical Bonds
  Unit 7. The Nature of Matter
  Unit 8. Solutions
  Unit 9. Chemical Reactions
  Unit 10. Acids and Bases
  Unit 11. Nuclear Chemistry
  Unit 12. Organic Chemistry

  These are self-assessment that are not directly factored into your grade calculation.

- Unit Tests

  There are twelve Unit Tests given online through Sapling Learning. These tests are designed and administered to promote mastery of the selected Student Learner Outcomes. These open book tests allow you to reference your course materials and Internet resources during the assessment. The tests are composed of calculation, matching, multiple choice, and true/false questions. The topics for the Unit Tests correspond to the unit topics:

  Unit 1. The Study of Chemistry
  Unit 2. The Nature of Matter
  Unit 3. Measurement and Conversions
  Unit 4. Atomic Structure

Unit 5. The Periodic Table
Unit 6. Chemical Bonds
Unit 7. The Nature of Matter
Unit 8. Solutions
Unit 9. Chemical Reactions
Unit 10. Acids and Bases
Unit 11. Nuclear Chemistry
Unit 12. Organic Chemistry

Each Unit Test is worth a maximum of 100 points. The average for the ten highest Unit Tests is the Unit Tests Grade. The maximum point value for the Unit Tests Grade is 100 points.

- Semester Exams

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

The first Semester Exam is designed and administered to evaluate retention of course content for the material covered in the first three units. The topics for Semester Exam 1 correspond to the unit topics:

Unit 1. The Study of Chemistry
Unit 2. The Nature of Matter
Unit 3. Measurement and Conversions

The second Semester Exam is designed and administered to evaluate retention of course content for the material covered from the second three units. The topics for Semester Exam 2 correspond to the unit topics:

Unit 4. Atomic Structure
Unit 5. The Periodic Table
Unit 6. Chemical Bonds

The third Semester Exam is designed and administered to evaluate retention of course content for the material covered from the third three units. The topics for Semester Exam 3 correspond to the unit topics:

Unit 7. The Nature of Matter
Unit 8. Solutions
Unit 9. Chemical Reactions

The fourth Semester Exam is designed and administered to evaluate retention of course content for the material covered from the last three units. The topics for Semester Exam 4 correspond to the unit topics:

Unit 10. Acids and Bases
Unit 11. Nuclear Chemistry

Unit 12. Organic Chemistry

The four Semester Exams are scheduled for 80 minutes. Each exam is worth a maximum of 100 points.

- Final Exam

  There will be one cumulative exam given at the end of the semester. It covers content from all twelve units. This Final Exam is composed of multiple choice, matching, and true or false questions.

  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 the following Student Learner Objectives:

  SLO 1. Identify and express the terminology used in chemistry, the nomenclature of inorganic and selected organic substances, and the physical and chemical properties of inorganic and selected organic substances.
  SLO 2. Recognize the fundamental facts, principles, theories, laws, and concepts necessary for further studies in science and related subjects.
  SLO 3. Categorize the structure, states, and physical and chemical properties of matter.
  SLO 4. Solve basic chemistry problems, conversions and calculations.

  The Final Exam is scheduled during Finals week at the end of the semester. It is worth a maximum of 100 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. You must attend the laboratory sessions and demonstrate your ability to safely perform the experiment, physically manipulate the equipment, make experimental observations, and work cooperatively with your lab group. 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, there will be one opportunity to perform the lab at the end of the first week of classes.

  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.

The Laboratory Grade is determined taking a weighted average of the Pre-lab Questions Average, the Experiments Average, the Online Labs Average, and the Lab Quizzes Average.

The Pre-lab Questions Average is calculated as the simple average of the assignment scores remain after dropping the lowest score. The Pre-lab Assignment requires that students 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.

Each pre-lab assignment is based on a maximum of 100 points.

The Experiments Average is calculated as the simple average of assignment scores that remain after dropping the lowest score. The Experiments require that students work either individually or cooperatively, in lab groups (i.e., teams), to achieve the following outcomes.

- 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.

Each experiment is based on a maximum of 100 points.

The Online Labs Average is calculated as the simple average of the assignment scores that remain after dropping the lowest score. Online Labs require that students record observations, graph data, perform calculations, analyze data, and report conclusions, and to achieve the following outcomes.

- 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.

Each online lab assignment is based on a maximum of 100 points.

The Lab Quizzes Average is calculated as the simple average of the quiz scores that remain after dropping the lowest score. The Lab Quizzes are designed to achieve the following outcomes.

- Perform calculations using data obtained during the experiment.
- Interpret the data from 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.

Each post-lab assignment is based on a maximum of 100 points.

- Syllabus Quiz

  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. Student can work collaboratively on the quiz. The Syllabus Quiz Grade is worth a maximum of 100 points.

- Surveys

  There are three surveys this semester. Two of the surveys are provided through Blackboard. The surveys are to help your Instructor improve the design of the course and to address navigation problems. The third survey is the COM Course Evaluation which is administered by the College through CoursEval. Each survey is anonymous. The course surveys are worth a maximum of 25 points each and the COM Course Evaluation is worth 50 points. The Survey Grade is the sum of the points for the three surveys. It is worth a maximum of 100 points.

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 weighted sum of the grading categories.

Blogs Grade

- There are four Blogs, each worth 25 points.
- The Blogs Grade is the sum for the four blog scores. It is worth a maximum of 100 points and 5.0% of the course grade.

Discussion Forums Grade

- There are four Discussion Forums. The first forum and the fourth forum are each worth a maximum of 10 points and the second and third forums is worth a maximum of 40 points. A grading rubric is provided for each forum. The grade earned for each forum is the rating assigned to the posts and replies in accordance with the grading rubric and due date.
- The Discussion Forums Grade is the sum for the four forum scores. It is worth a maximum of 100 points and 5.0% of the course grade.

Presentation Grade

- Presentation Topic Selection Forum
  - The Presentation Topic Selection Forum is worth a maximum of 5 points.
- Presentation
  - The Presentation Assignment is worth a maximum of 95 points.
- The Presentation Grade is the sum of the points from the Presentation Topic Selection Forum, plus the Presentation. It is worth a maximum of 100 points and 10% of your course grade.

Semester Exams and Unit Tests Average

- Unit Tests Average
  - There are twelve Unit Tests. Each Unit Test is worth a maximum of 100 points.
  - The Unit Tests Grade is the average for the highest ten Unit Test scores.
- Semester Exams
  - There are four Semester Exams. Each exam is worth a maximum of 100 points.
- The Semester Exams and Unit Tests Averages is the simple average for the highest four of the five scores. The lowest score will be dropped from the calculation.

Final Exam Grade

- The Final Exam is worth a maximum of 100 points and 15% of your course grade.

Lab Grade

- Pre-lab Questions
  - Each set of pre-lab questions is worth a maximum of 100 points.
  - The Pre-lab Questions Average is calculated as the simple average of the assignment scores remain after dropping the lowest score. It is worth 10% of your Lab Grade.
- Experiments
  - Each experiment is worth a maximum of 100 points.
  - The Experiments Average is calculated as the simple average of assignment scores that remain after dropping the lowest score. It is worth 50% of you Lab Grade.
- Online Labs
  - Each of the assignments is worth a maximum of 100 points.

        - The Online Labs Average is calculated as the simple average of the assignment scores that remain after dropping the lowest score. It is worth 20% of your Lab Grade.
    - Lab Quizzes
        - Each lab quiz is worth a maximum of 100 points.
        - The Lab Quizzes Average is calculated as the simple average of the quiz scores that remain after dropping the lowest score. It is worth 20% of your Lab Grade.
    - The Lab Grade is worth 25% of your course grade.

Syllabus Quiz Grade

- The maximum points that can be earned for the Syllabus Quiz is 100 points and is a bonus worth 0.5% of your course grade.

Survey Grade

- Course Surveys
    - Submitting a completed Course Survey in accordance with the due date is worth a maximum of 25 points.
- Course Evaluation
    - Completing and submitting the Course Evaluation through CoursEval is worth a maximum of 50 points.
- The Survey Grade is the sum of the points for completing and submitting the two Course Surveys by the due date plus the points for completing and submitting the Course Evaluation by the deadline. It is worth a maximum of 100 points and is a bonus worth 0.5% of your course grade.

You can keep track of your earned points in Blackboard (My Grades link in the Course Menu) and in Sapling Learning (Grades link in the list on the left-hand side). The above categories will be listed in the online grade book as listed above. Unit Test grades will be immediately released. Other grades will be released as they become available. If you have any questions concerning your grade, please contact me. To save us both time when contacting me, 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	**Percentage**
Blogs Grade	5.0%
Discussion Forums Grade	5.0%
Presentation Grade	10.0%
Semester Exams and Unit Tests Average	40.0%
Final Exam Grade	15.0%
Lab Grade	25.0%
Total Points	100.0%
Survey Grade (Bonus)	0.5%
Syllabus Quiz Grade (Bonus)	0.5%
Total Points with Bonus	101.0%

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

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

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.

The grade for this course consists of both a lecture and laboratory component. 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. Deviations from this policy will be at the sole discretion of the instructor.

Make-Up Policy & Late Work: The course is designed to accommodate some of life's mishaps, difficulties, or tragedies by providing extended deadlines for many of the assessments and assignments. The course evaluation through CoursEval is an exception. 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 syllabus quiz, course surveys conducted by your instructor (not the CourseEval course evaluation), all blogs, all graded forums, all lab assignments, the presentation, the semester exams, and the final exam have a 24-hour extension beyond the due date with no point deduction. After the extended deadline has passed those assignments and assessments are closed. After the extended deadline for the presentation has passed, it can be turned in late, for a maximum of half-credit, until the Sunday preceding the final exam.

The unit tests have an extended deadline of seven days with a loss of 5% per day. After the extended deadline has passed, the unit tests are 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.

Course outline: Use this course outline and tentative class schedule to schedule your course activities for the semester. The following designations are used to indicate time periods and deadlines:

(B) – Blackboard: for activities, assignments and assessments that are completed online through Blackboard.

(L) – Chemistry Lab: for “wet” lab sessions. The lab is Room S128 in the Science Building on campus. Members of Group 1 will meet on odd weeks from 6:00 PM-8:50 PM and members of Group 2 will meet on even weeks from 6:00 PM-8:50 PM.

(S) – Sapling Learning: for activities, assignments and assessments that are completed online through Sapling Learning.

(T) – Microsoft Teams: for online meetings.

Standard Due Dates and Deadlines: The standard due dates and deadlines for activities, assignments, and assessments in the course are nightly at 23:30 (11:30 PM).

Date	Reading assignments	Topics	Assignments due	Due date and time
7/12/2021	Read me first	Lab 1: Safety in the Chemistry Lab, Course introduction, Sapling learing, Safety Discussion, Forum 1, syllabus quiz (L)	Exp 1 Drop box (B)	7/13/2021 at 23:30
	Chapter 1		Forum 1 (B)	7/13/2021 at 23:30
			Syllabus Quiz (B)	7/13/2021 at 23:30
			Course survey 1 (B)	7/13/2021 at 23:30
			Online Lab 1 assignment (SDS Review) (B)	7/13/2021 at 23:30
			Unit 1 (S) The study of chemistry (S)	7/18/2021 at 23:30
7/13/2021	Chapter 2	Lab 2: Evaluating the Chemical and Physical Properties of Matter (L)	Exp 2 Pre Lab drop box (B)	7/14/2021 at 23:30
			Exp 2 Post Lab drop box (B)	7/14/2021 at 23:30
			Exp 2 Data & Calculations drop box (B)	7/14/2021 at 23:30
			Select Presentation topic (B)	7/14/2021 at 23:30
			Unit 2 test (S) The Nature of Matter	7/18/2021 at 23:30
7/14/2021	Chapter 3	Lab 3: Making Measurements in the Chemistry Lab (L)	Lab 3 Drop Box (B)	7/15/2021 at 23:30
			Lab quiz 1: Unit Conversion (B)	7/18/2021 at 23:30
			Presentation Research	
			Forum 2 (B)	7/15/2021 at 23:30
			Unit 3 test (S) Measurements and Conversions	7/18/2021 at 23:30
7/15/2021	Chapter 4	Lab 4: Endothermic and Exothermic Reactions (L)	Lab 4 Pre Lab drop box (B)	7/16/2021 at 23:30

			Lab 4 Post Lab drop box (B)	7/16/2021 at 23:30
				Census Day 7/15/2021
			Presentation Research	
			Lab 4 Data & Calculations drop box (B)	7/16/2021 at 23:30
			Unit 4 test (S) Atomic Structure	7/18/2021 at 23:30
7/15/2021			SLO 1 (Unit 1-3)	7/16/2021 at 23:30
	Semester Exam 1 (Unit 1-3) (B)			7/20/2021 at 23:30
	Chapter 5		Lab 5 Drop box (B)	7/20/21 at 23:30
			Presentation Research	
			Unit 5 test (S) The Periodic Table	7/25/2021 at 23:30
7/19/2021		Lab 5: Separating Component of a Ternary Mixture (L)	Pre Lab 5 (B)	7/20/21 at 23:30
7/20/2021	Chapter 6	Lab 6: The Periodic Table (Dry Lab)	Online Lab Quiz 2: The Periodic Table, Periodicity, and Electron Configurations	7/21/2021 at 23:30
		Lab 7: Lewis Structure and the shapes of molecules (Dry Lab)	Online Lab 2: Lewis Structure and the shapes of molecules	7/22/2021 at 23:30
7/21/2021	Chapter 7		Lab 7 drop box (B)	7/22/2021 at 23:30
7/22/2021	Chapter 8	Lab 8: Evaluating the Behavior of Gases (L)	Lab 8 Dropbox (B)	7/23/2021 at 23:30
			Lab 8 Quiz (B)	7/23/2021 at 23:30
		Lab 8-2: Evaluating the Behavior of Gases (L)	Lab 8-2 Dropbox (B)	7/23/2021 at 23:30
			Lab 8-2 Quiz (B)	7/23/2021 at 23:30
			Presentation Research	
			Unit test 6 (S): Chemical Bonding	7/25/2021 at 23:30
			SLO 2 (Unit 4-6)	7/26/2021 at 23:30

7/26/2021	Semester Exam 2 (Unit 4-6) (B)			7/27/2021 at 23:30
			Course survey 2 (B)	7/28/2021 at 23:30
	Chapter 9	Lab 9:The Freezing and Melting of Water (L)	Lab 9 Dropbox	7/27/2021 at 23:30
7/27/2021	Chapter 10	Lab 10: Evaluating the Conductivity of Salt solution.(L)	Lab 10 Pre Lab (B)	7/28/2021 at 23:30
			Lab 10 Post Lab (B)	7/28/2021 at 23:30
			Lab 10 Data and Calculations DropBox (B)	7/28/2021 at 23:30
7/28/2021		Lab 11: Relative Mass and the Mole (L)	Lab 11 data dropbox	7/29/2021 at 23:30
			Lab 11 Post lab dropbox	7/29/2021 at 23:30
7/29/2021		Lab 12: Determining the Formula of a Hydrate (Online Lab 4)	Lab 12 Dropbox	7/30/2021 at 23:30
			Lab 12 Quiz	7/30/2021 at 23:30
			Forum 3	8/1/2021 at 23:30
			Online Lab 3: Chemical Reactions	8/1/2021 at 23:30
			Online Lab 3 dropbox	8/1/2021 at 23:30
			Online Lab 3 Post Lab 3	8/1/2021 at 23:30
			Unit 7 (S): States of Matter	8/1/2021 at 23:30
			Online lab quiz 3 dropbox (B) Phase change calculations	8/1/2021 at 23:30
			Unit 8 (S): Solutions	8/1/2021 at 23:30
			Unit 9 (S): Chemical Reactions and Stoichiometry	8/1/2021 at 23:30
			SLO 3 (Unit 7-9)	7/30/2021 at 23:30
8/2/2021	Semester Exam 3 (Unit 7-9) (B)			8/3/2021 at 23:30

			Course survey 3 (B)	8/4/2021 at 23:30
8/2/2021		Lab 13: Acidity and Alkalinity of Household Chemicals (L)	Lab 13 Dropbox	8/3/2021 at 23:30
			Lab 13 Prelab Dropbox	8/3/2021 at 23:30
8/3/2021	Chapter 13	lab 14: Nuclear Reactions (Online)	Lab14: Online Lab 4 Quiz	8/4/2021 at 23:30
			Lab14: Online Lab 4 drop box	8/4/2021 at 23:30
8/4/2021	Chapter 14	Lab 15: Structure and Nomenclature (Online)	Lab 15: Online Lab quiz 5	8/5/2021 at 23:30
8/5/2021	Chapter 15		Lab 15: Online Drop box 15-Structure and Nomenclature of Organic Molecules	8/6/2021 at 23:30
8/6/2021				"W" day
			Forum 4 (B)	8/8/2021 at 23:30
			Unit 10:	8/8/2021 at 23:30
			Unit 12:	8/8/2021 at 23:30
			Unit 13:	8/8/2021 at 23:30
			SLO 4 (Unit 10-12)	8/7/2021 at 23:30
8/9/2021	Semester Exam 4 (Unit 10-12) (B)			8/10/2021 at 23:30
8/10/2021			Review Chapters 1-10 and 13-15	
8/11/2021	Final Exam (Unit 1-12)			8/11/2021 at 21:50

Attendance Policy: All students registered in this class are expected to attend all face-to-face sessions, to log in to this course at least twice each week, to participate in the class during those online sessions, and to follow the same attendance policy as the traditional classes offered on campus. This policy follows the attendance policies prescribed in the current College Catalog (http://coursecatalog.com.edu/).

Failing to attend class, log into Blackboard and Sapling 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 Sapling Learning and are demonstrating poor progress towards obtaining the course goals

(objectives), the instructor may administratively withdraw you from the course. For example, 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.

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.

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 5-week summer session is July 2. The last date to withdraw from the 10-week summer session is August 2. The last date to withdraw for the 2nd 5-week summer session is August 6.

It is your responsibility to withdraw from the course and file the appropriate "drop form" with the Registrar's Office. If you demonstrate insufficient progress in the course, 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 maintain a passing average for the class, or demonstrating poor progress towards obtaining the course goals (objectives).

If you stop attending class, fail to withdraw from the course, and are not withdrawn from the class by your instructor, you will receive the grade based on your accumulated points.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN 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 FN grade is at the discretion of the instructor.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention is 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.

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.

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.

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
1. Identify and express the terminology used in chemistry, the nomenclature of inorganic and selected organic substances, and the physical and chemical properties of inorganic and selected organic substances.	Communication Skills Critical Thinking	Presentation Selected Test or Exam Questions
2. Recognize the fundamental facts, principles, theories, laws, and concepts necessary for further studies in science and related subjects.	Critical Thinking	Selected Test or Exam Questions
3. Categorize the structure, states, and physical and chemical properties of matter.	Critical Thinking	Selected Test or Exam Questions
4. Solve basic chemistry problems, conversions and calculations	Empirical and Quantitative Skills	Selected Test or Exam Questions
5. Identify proper safety techniques and locate needed safety information.	Critical Thinking Skills	Experiment 1 Grade Lab Procedure Grade
6. Perform online laboratory procedures clearly record data and observations, perform calculations, and perform data analysis.	Teamwork	Lab Procedure Grade

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 career. 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 that is 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 setup their appointment. Appointments are strongly encouraged; however, some concerns may be addressed on a walk-in basis.

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.

Acknowledgements: This syllabus was developed using a template developed by the COM Administration. Other parts of this syllabus were derived from the work of my professors and my colleagues. I thank them for their willingness to share their work.