CHEM1141-201/202: General Chemistry 1 Laboratory

Spring 2021

**Meeting Times:** CHEM1141-201 M 1:00 – 3:05 pm

CHEM1141-202 M 3:10 – 5:10 pm

**Contact Information**

**Instructor:** Elizabeth A. Machunis-Masuoka, PhD, MA

**Office:** BO307D

**Office Hours by Appointment Only:** M 9:00 – 10:00 am; T 10:00 – 12:00 am; W 10:00 am – 12:00 pm

**Office phone:** (940) 397-4071

**E-mail:** elizabeth.masuoka@msutexas.edu (preferred means of contact)

**Twitch:** ChemistryJujitsu

**Required Materials:**

1. ***Laboratory Manual for General Chemistry 1141***, Fulton, Quashnock, et al. (must be new; you may NOT recycle books from past students)
2. **Scientific Calculator**: bring your calculator **every** day.
3. **Reliable Internet** and access to a personal **computer** (your own or a lab). You must be able to livestream lectures as well as play pre-recorded lectures. You should have a webcam.
4. Access to **D2L** and all materials—including lectures—that are there. You will need to access lecture recordings, online tutorials, and extra reading assignments.
5. **Scanning Capability**: either download a free scanner app for your phone or have scanning technology. You will need to upload some work to Dropbox in D2L.
6. **Printing Capability**: if you do not own a printer, there are printers on campus. When you are told to print assignments and turn them in, it is expected that you follow directions.
7. **Stapler**: there is no excuse for not turning in stapled work.
8. **Goggles and a face mask**: these are your responsibility to provide. We will provide gloves.

**Prerequisites:**

Concurrent enrollment in CHEM1143 (if you drop CHEM1143 you MUST drop CHEM1141)

**General Education Statement:**

Each student must show competency in all areas of the General Chemistry laboratory: collecting and manipulating data, calculations, understanding the equipment used and sources of error, and concepts/topics covered in each experiment. Data sheets and prelabs are due weekly in addition to a quiz over the material. A midterm and final will also be given.

**SARS-CoV-2/Influenza Statement**

SARS-CoV-2 is a real infectious agent that should not be taken lightly. SARS-CoV-2 can and does sometimes kill those it infects. Symptoms for SARS-CoV-2 include (but are not limited to) fever greater than or equal to 100.0 °F, cough, shortness of breath or difficulty breathing, sore throat, loss of taste or smell, chills, muscle pain, and headache. Many of these symptoms overlap with those of influenza. Many people do not show symptoms, yet they are infectious. If you have a fever, you should NOT be coming to class. If you are demonstrably ill, you should NOT be coming to class. For your own safety and the safety of those around you, MSU is requiring daily self-checks for health, mask-wearing, and other forms of sanitation. You should adhere to all university requirements.

All members of the MSU Texas community should undergo daily health screening assessments, which include checking temperature. **For my class, all students are REQUIRED to download and use one of the two Covid-19 self-checkers listed below**:

1. The **MSU Safety App** provides a link to a COVID-19 screening assessment. The MSU Safety App is available on the [Apple Store](https://webmail.msutexas.edu/owa/redir.aspx?C=i9mJSc_F7YqUs3F9IlwF56NBEJm_BNpe_RXPYAgcUjotyO35pSHYCA..&URL=https%3a%2f%2fapps.apple.com%2fus%2fapp%2fmsu-safety%2fid1141951126) or [Google Play App Store](https://webmail.msutexas.edu/owa/redir.aspx?C=gedn0PLEN-bh3x_pTUAby5N2vnJLlLH_U2k26OmC5VctyO35pSHYCA..&URL=https%3a%2f%2fplay.google.com%2fstore%2fapps%2fdetails%3fid%3dcom.cutcom.apparmor.mwsu%26hl%3den_US).
2. The Centers for Disease Control and Prevention (CDC) offers a [Coronavirus Self-Checker](https://webmail.msutexas.edu/owa/redir.aspx?C=itrvA_1oThWjP1X_Sx84q-uEWAkCV6KtSjUQLX959fktyO35pSHYCA..&URL=https%3a%2f%2fwww.cdc.gov%2fcoronavirus%2f2019-ncov%2fsymptoms-testing%2fsymptoms.html). If taking the survey from your phone, the best way to capture the results is to take a picture or screenshot. If taking from a computer, you can screenshot the results or save as a pdf file.

**Masks are mandatory on campus and in my classroom. You must wear a mask for the duration of the class period. You must wear your mask properly! That means you must wear it over your nose as well as your mouth. Refusal to wear a mask puts everyone at risk and you will be asked to leave the class and not return until you are wearing a mask and wearing it properly.**

MSU has developed a [MSU Texas Return to Campus website](https://webmail.msutexas.edu/owa/redir.aspx?C=f125CX5YId-0uzdZ-HYEZZaO3xoX5m8IpF2PQgeZ0J8tyO35pSHYCA..&URL=https%3a%2f%2fmsutexas.edu%2freturn-to-campus%2fmsu-texas-commitment.php) in addition to a Covid-19 dedicated page that will provide you with additional information regarding academic instruction, health and safety, campus life, and business operations. You should make a habit of checking these sites every day for new information.

It is possible that MSU will need to return to online-only instruction. You should be prepared for this. Students should make every effort to ensure access to a personal computer and internet service.

**NOTE:** If you wish to wear a face shield **in addition to goggles AND a face mask** you may do so, but you may NOT wear a face shield in place of either goggles or the face mask. Face masks and goggles are still required to be worn at all times in the lab.

**Study Hours and Tutoring Assistance**

For every 1 hour in class, students should spend 3 hours studying, doing homework, and otherwise preparing for this course. Free tutoring will be available during the semester. You cannot expect to do well if you do not work at it; chemistry must be practiced to be mastered.

**Attendance**

Students are expected to **attend all meetings** of the classes in which they are enrolled. **Lab attendance is thus required.** Your **first missed lab** will be dropped, and you will be given data and required to submit a “dry lab” data sheet to receive credit for the lab. The **second missed lab** counts against you as a zero. With the **third missed lab**, you fail the course. You cannot do labs if you are not physically in lab; you cannot do labs online. Students in quarantine MUST go through proper university notification channels for it to count; otherwise, you will be assumed to lying about your exposure to the virus. See SARS statement above. **NOTE: I will NOT be offering make-up in-person labs, regardless of what other instructors might do.**

Students are expected to always be ON TIME. Students are expected to have read all required materials before walking into class. You should plan on taking the entire allotted time to complete the lab. You will NOT be allowed to go over time to finish.

**Grading**

Grades will be assessed based on the following percentages. There will be NO extra credit. Course grade categories are shown in Table 2.

**Table 1: Distribution of Points.**

|  |  |
| --- | --- |
| **Assignments** | **Percentage of Grade** |
| **EXAMS** (Midterm, Comprehensive Final; 250 points) | 20 % |
| **Quizzes** (10 at 15 points each; lowest dropped) | 10 % |
| **Prelabs** (10 at variable points) | 10 % |
| **Data Sheets** (9 at 100 points each) | 50 % |
| **Participation (Demerit system; lose pts for not doing these things, up to 10% of grade)** Lab Clean-up Watching Videos | 10 % |

**Table 2: Percentage Breakdown for Final Grades.**

Grade Percentage Range

A 89.5% and higher

B 79.5% to 89.4%

C 69.5% to 79.4%

D 59.5% to 69.4%

F 59.4% and lower

**Quizzes**

**Quizzes will be given online before EVERY lab meeting except for exam days.** Quizzes will consist of general theory and problem solving. Problem-solving will be extensive. All quizzes will be TIMED (you will not have unlimited time to complete quizzes). Quizzes are NOT open-note, open-book, or open-internet (NO PHONES). Quizzes are to represent YOUR best effort.

**There will be NO make-ups for missed quizzes.** Each quiz will be worth 15-20 points and there will be a total of 10 quizzes. The lowest quiz grade will be dropped (missed quizzes beyond the 1 drop will count against you). This class is graded on straight points—do NOT blow off the quizzes. Poor quiz scores will drag your grade down, making it impossible to make-up the difference.

Quizzes will be given ONLINE through D2L. **Quizzes will be due by 11:00pm Sunday night prior to Lab on Monday.** Disability students must take their quizzes under the same conditions as all other students.

**Midterm Exam**

There will be 1 (**one**) midterm exam. The midterm will predominantly test your ability to perform calculations from labs 1 through 4 and to interpret data and results. You will also be tested on safety, concepts such as accuracy and precision, general concepts and theory from the labs covered by the exam, and significant figures. The midterm will be a composite of multiple-choice questions, fill-in or short-answer questions, and problems. The midterm is designed to test problem-solving skills. These types of exams cannot be crammed for; you must study every day to do well and to finish the exams in the allotted timeframe. All exams are TIMED. Exam dates are listed on the Lecture Schedule and will not be moved. No make-up midterms will be offered. **Since the exam is offered during your scheduled lab time, you MUST be there; missing the exam means missing lab and unless you are verifiably ill, injured, in the hospital, or legitimately (as notified through proper channels) in isolation or quarantine, you will receive a zero for the exam.** Missing the exam ALSO counts as one of the absences for the lab.

Absolutely no electronic devices of any kind may be used during exams. All exams are closed book and will be monitored for cheating. If you are caught doing anything suspicious, your exam will be taken away from you and you will receive an automatic zero for the exam. **NOTE: using old notes and exams from other students to prepare for this class is considered cheating and is not allowed. Copying your notes or exams to give to others either in or out of this class is considered cheating and is not allowed. Working in small groups for the purposes of skewing exam scores is considered collusion and is not allowed.**

**COMPREHENSIVE Final Exam**

All students will be required to take a comprehensive final exam. While the exam is comprehensive, it will be weighted towards the labs performed since the first exam. The format will be similar to that of the midterm. This exam will be given during the last week of classes during regularly scheduled lab time and will be administered under the same conditions outlined above.

**Extra Credit**

Absolutely NO extra credit will be offered for this course.

**Late Work**

Absolutely NO late work will be accepted. Deadlines are hard deadlines. Everything must be turned in on time or it is a zero.

**Make Up Work/Tests**

Absolutely NO make-ups will be allowed for any lab, quiz, or exam. Legitimate absences will be worked around (documentation must be provided), but not through a make-up process.

**Important Dates**

Last day for term schedule changes: January 11 – 13, 2021.

Last Day to drop with a grade of “W:” 4:00pm on Friday, April 23, 2021.

**Desire-to-Learn (D2L)**

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into D2L through the MSU Homepage. If you experience difficulties, please contact the technicians listed for the program. **NOTE: there is a D2L app you can put on your phone to have access to the class anywhere and at any time—put it on your phone!**

**University Teams and Organizations**

All members of in-season sports teams or other campus organizations who will be missing class because of university sanctioned events and on a repeated basis should consider NOT taking lab this semester. You cannot complete the lab if you are not in the lab.

**Services for 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. In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. The instructor then needs to be notified by the student of the nature of these accommodations. **This notification will take the form of an official letter obtained from DSS by the student and given to the instructor.** Every effort should be made to provide me with this documentation within the first 2 weeks of the semester to avoid losing accommodations because you failed to provide proper notification in a timely manner. It is always the responsibility of the student to arrange accommodations with DSS. Students with disabilities must still take their exams on the same day as the rest of the class. For more details, please go to Disability Support Services.

ALL COVID ACCOMMODATIONS MUST BE ACCOMPANIED BY DOCUMENTATION FROM DSS. You may not stay home “just because”. Students with DSS accommodations will likely need to do all quizzes and exams online and submit written work via scanned pdf.

**College Policies**

1. **Campus Carry Rules/Policies:** Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University’s Campus Carry homepage. If you have questions or concerns, please contact MSU Chief of Police Patrick Coggins at patrick.coggins@mwsu.edu. **NOTE: guns are definitely NOT allowed in lab spaces.**
2. **Smoking/Tobacco Policy:** College policy strictly prohibits the use of tobacco products in any building owned or operated by WATC. Adult students may smoke only in the outside designated-smoking areas at each location.
3. **Alcohol and Drug Policy:** To comply with the Drug Free Schools and Communities Act of 1989 and subsequent amendments, students and employees of Midwestern State are informed that strictly enforced policies are in place which prohibits the unlawful possession, use or distribution of any illicit drugs, including alcohol, on university property or as part of any university-sponsored activity. Students and employees are also subject to all applicable legal sanctions under local, state and federal law for any offenses involving illicit drugs on University property or at University-sponsored activities.
4. **University Code of Conduct:** In general, students are to attend all meetings of all classes; instructors may drop students for excessive absences, indifference, disruptive behavior, or failure to complete class assignments; students are prohibited from cheating, plagiarizing, or colluding. Students are expected to have read the Student Handbook.
5. **Academic Dishonesty:** Cheating, plagiarism, and collusion (as well as several other forms of conduct) are all strictly prohibited at MSU. Please read the MSU Student Handbook definitions of cheating, plagiarism, and collusion and MAKE SURE that you do not engage in any of these behaviors. If you are unclear on what may count as cheating, plagiarism, or collusion after reading the material below, please see the instructor or the Dean of Students.
	1. The term “**cheating**” includes, but is not limited to: (1) use of any unauthorized assistance in taking quizzes, tests, or exams; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or (3) the acquisition, without permission, of tests or other academic material belonging to a member of the faculty, staff, or another student.
	2. The term “**plagiarism**” includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials. Plagiarism also includes the use of someone else's thoughts, words, ideas, or lines of argument in your own work without appropriate documentation (a parenthetical citation at the end and a listing in "Works Cited") whether you use that material in a quote, paraphrase, or summary. It is a theft of intellectual property and will not be tolerated, whether intentional or not.
	3. The term “**collusion**” means collaboration with another person in preparing any work offered for credit if that collaboration is not authorized by the faculty member in charge.
	4. **Student Honor Creed:** “As an MSU Student, I pledge not to lie, cheat, steal, or help anyone else do so." You should memorize this and live by it.
6. **Safe Zones Statement:** The professor considers this classroom to be a place where you will be treated with respect as a human being regardless of gender, race, ethnicity, national origin, religious affiliation, sexual orientation, political beliefs, age, or ability. Additionally, diversity of thought is appreciated and encouraged, provided you can agree to disagree. It is the professor's expectation that ALL students consider the classroom a safe environment.
7. **Instructor Drops:** According to the MSU Student Handbook, “An instructor may drop a student any time during the semester for excessive absences, for consistently failing to meet class assignments, for an indifferent attitude, or for disruptive conduct.” For the purposes of this course, “consistently failing to meet class assignments” includes consistently not turning in assigned work or turning in work that consistently receives a failing grade.
8. **Intellectual Property:** By enrolling in this course, the student expressly grants MSU a “limited right” in all intellectual property created by the student for the purpose of this course. The “limited right” shall include but shall not be limited to the right to reproduce the student’s work product to verify originality and authenticity, and for educational purposes.