



Course Syllabus

ATLANTA METROPOLITAN STATE COLLEGE

School of Arts and Sciences

Survey of Chemistry II - CHEM 1152K CRN: 80157 Section 201

Online

This is a Core IMPACTS course that is part of the STEM area.

Core IMPACTS refers to the core curriculum, which provides students with essential knowledge in foundational academic areas. This course will help master course content, and support students' broad academic and career goals.

Please download this document as it may not display accurately in the web browser.

Instructor Information	
Instructor	Kenneth Starks
Office location:	Macmillan Building (#900), Room 207
Office telephone:	404-756-3789 470-755-7381 (text)
Email Address	kstarks@atlm.edu
Class Meeting Times:	Online
<ul style="list-style-type: none"> In Person Office Hours: 	Monday 12:30 pm – 5:30 pm Thursday 12:30 pm – 5:30 pm
<ul style="list-style-type: none"> Online Office Hours 	Monday 1:00 PM – 3:00 PM with Microsoft Teams
<ul style="list-style-type: none"> By Appointment 	Office hour disclaimer: If you are not able to meet with the instructor during office hours, you may schedule an appointment based on instructor's availability.
Course Information	
Pre-requisites	CHEM 1151K
Credit Hours	4
Catalog Description	This course is a continuation of the general chemistry sequence and includes an introduction to organic and biochemistry. Consumer chemistry topics such as types of drugs, over-the-counter, legal and illegal, will be discussed. Be conscientious about turning in assignments on a timely basis. It is imperative to read and become familiar with course topics prior completing assignments for that topic.
Orienting Question:	<p>How do I ask scientific questions or use data, mathematics, or technology to understand the universe? Completion of this course should enable students to meet the following <u>Learning Outcome</u>:</p> <ul style="list-style-type: none"> Students will use the scientific method and laboratory procedures or mathematical and computational methods to analyze data, solve problems, and explain natural phenomena. <p>Course content, activities and exercises in this course should help students develop the following:</p> <ul style="list-style-type: none"> Inquiry and Analysis Problem-Solving Teamwork

Course Start, End Date	August 18, 2025 – December 6, 2025
Course Content	<p>The following chapters will be covered in this course:</p> <ul style="list-style-type: none"> • Chapter 10: Functional Groups • Chapter 11: Alkanes • Chapter 12: Alkenes & Alkynes • Chapter 13: Benzene & Its Derivatives • Chapter 14: Alcohols, Ethers, and Thiols • Chapter 15: Chirality: The Handedness of Molecules • Chapter 16: Amines • Chapter 17: Aldehydes and Ketones • Chapter 18: Carboxylic Acids • Chapter 19: Carboxylic Anhydrides, Esters, & Amides • Chapter 20: Carbohydrates • Chapter 21: Lipids • Chapter 22: Proteins
Career-Ready Competencies:	<ul style="list-style-type: none"> • Inquiry and Analysis • Problem-Solving • Teamwork
Course Textbook	<p>Introduction to General, Organic, and Biochemistry, 12th Edition by Bettelheim, Brown, Campbell, Farrell, & Torres; Cengage, 2020. ISBN: 9781337571357.</p> <p>This course is a Day 1 Ready Inclusive Access course. This means that these books have already been paid with your tuition. In order to obtain the textbook for lecture each student must visit the AMSC Bookstore website (https://atlm.textbooktech.com/) to request the textbook to be sent to an address. Once on the website, login using your AMSC student credentials, scroll down to Textbook Lookup, click on Lookup by Student ID, then choose the mail option located by the textbook. If you would prefer the ebook please click on the link that is available in the content section.</p>
Required Resources	Textbook, Internet.
Recommended Resources	Scientific Calculator (Should perform log, exponential and basic math calculation)

General Education Learning Outcomes	This course addresses the general education outcome relating to communications as follows: Apply the steps and tenets of the scientific method.							
Core Impact Learning Outcomes	Students will use the scientific method and laboratory procedures or mathematical and computational methods to analyze data, solve problems, and explain natural phenomena.							
Program Learning objectives	NA							
Important Dates	Holidays	Attendance Verification (No Show Date)	Last Day to Reinstate	Midterm	Last day to Withdraw Without Penalty	Last day of Class	Final Exam	
	9/2 11-28/29	8/27	8-28/9-2	10-04/10-9	10/20	12/6	12-9/11	
Course Delivery Method	Online							
Email Preference	kstarks@atlm.edu							
Online Courses	Please use the internal course e-mail for general correspondence. I provide my external e-mail address for emergencies only. I cannot answer questions, accept assignments, or discuss grades via external e-mail so please use it for emergencies only.							
Free Tutoring	Deanna Richards is the director of STEM tutoring at Georgia State University. Please contact her at 404-413-5563 to schedule free tutorial sessions. https://atlm.tutorocean.com/							
On Campus Courses	Please use ATLM or Ginger Email for communication. I also check Brightspace (D2L) email on a regular basis.							
Email Response Time	Unless you are notified otherwise, I will strive to respond to all student questions and emails within 24 hours during the week and within 48 hours during the weekend.							
Attendance:	Attendance is required at Atlanta Metropolitan State College. Students may view their attendance record by going to the Brightspace course page and clicking on "Attendance" from the "Assessments" menu at the top. It is the responsibility of each student to ensure that his or her recorded attendance is accurate. Any errors need to be brought to the attention of the instructor as soon as they are discovered.							
Online Attendance and Participation Policy	Being "Present" in class is determined by the student's active attendance and participation in an "academically related activity" which includes actual presence in a virtual class, submission of an assignment, group projects, completion of an exam or quiz and discussion forum posting.							
Conduct:	Refer to AMSC College Catalog, page 54							
Late Policy:	Late assignments will NOT be accepted.							

Enrollment Status:	Students are ultimately responsible for ensuring that the course(s) in which they enroll are included in the approved degree plan and program map for their program of study. Students must periodically check their enrollment status in this course during the semester. The student is responsible for determining changes, if any, in enrollment status and taking necessary steps (e.g., pursuing re-instatement in this course) following those outlined in the AMSC catalog.
Attendance Verification (No Show)/ Reinstatement	<p>Atlanta Metropolitan State College has a "No-Show" Reporting (Attendance Verification) policy. This policy is to comply with Federal Financial Aid regulations. Financial Aid recipients at Atlanta Metropolitan State College may become ineligible for funds by not attending class session (per enrolled course). Students who do not complete Mandatory Attendance Assignments and attend class sessions are NOT entitled to keep their financial aid award. The Registrar's Office will notify the students and faculty when the Attendance Verification Period has opened. The established "No-Show" Reporting (Attendance Verification) procedure will enable Atlanta Metropolitan State College to adjust financial aid awards before funds are issued to students (thereby eliminating liability for both the College and the student). A student reported as non-attending a course must seek the approval of the instructor in order to be reinstated. Once approved, the student will complete the Reinstatement form and submit it. The Office of Registrar will notify students when course reinstatement process has been completed during Reinstatement Period.</p> <p>The student can demonstrate compelling reason (s) that have prevented attendance and the instructor believes that there is a strong probability that the student can catch up in the class OR The instructor made an error, and the student was in attendance prior to being dropped.</p>
Computer Hardware & Software Requirements:	One of the challenges many encounter with enrolling in and completing an online course is the accessibility to the required and recommended software and hardware. Different institutions, and even different courses within the same institution, have varying technology requirements. Check your hardware and software systems to determine its compatibility with the online course you have selected.
Minimum Hardware Recommendations to take courses:	<p>D2L System Requirement</p> <p>Internet Connection:</p> <ul style="list-style-type: none"> · Ethernet Network Capability required · Wireless Network Capability required <p>Operating System Requirements</p> <ul style="list-style-type: none"> • PC: <ul style="list-style-type: none"> • Compatible Operating System: • Web Browser: Firefox, Chrome • Mac: <ul style="list-style-type: none"> • Compatible Operating System: • Web Browser: Firefox, Chrome, Safari

	<p>Hardware requirements:</p> <p>Minimum Technical Specifications for Hardware:</p> <ul style="list-style-type: none"> • A processor of 2GHz or faster • 4GB RAM or greater • 500 GB of Hard Drive space • Monitor and video card with a minimum resolution of 1024x768 • Keyboard and mouse <p>Minimum Technical Specifications for Computer Peripherals:</p> <ul style="list-style-type: none"> • Speakers • Headphones • Microphone • Webcam <p>Software requirements:</p> <p>Browser Requirements/Supported Browsers</p> <p>Compatible Browsers:</p> <ul style="list-style-type: none"> • Apple Safari - https://support.apple.com/downloads/safari (Mac) • Google Chrome - https://www.google.com/chrome/ (Mac or PC) • Mozilla Firefox - https://www.mozilla.org/en-US/firefox/new/ (Mac or PC) <p>Application Software</p> <ul style="list-style-type: none"> • Microsoft Office 2016 (Word, Excel, PowerPoint) (Mac or PC) • Adobe Reader - https://get.adobe.com/reader/ <p>Plug-ins</p> <ul style="list-style-type: none"> • Java - https://www.java.com/en/download/ • Adobe Flash Player - https://get.adobe.com/flashplayer/ • Windows Media Player - https://www.microsoft.com/en-us/download/details.aspx?id=20426 • Apple QuickTime - https://support.apple.com/downloads/%2523quicktime • Microsoft Silverlight - https://www.microsoft.com/getsilverlight/Get-Started/Install/Default <p><u>Accessibility:</u> Wi-Fi is also available for use in the campus parking lots.</p>
Tutoring Services	<p>Students improve their self-confidence and increase their chances of excelling in their courses when they utilize their college/university academic support services. The following tutoring services are available to AMSC students:</p> <ul style="list-style-type: none"> ❖ The AMSC Writing Center is open year-round to support students, staff, and faculty at AMSC. It offers virtual and in-person tutoring for various writing projects, assists at any stage of the writing process, and increases improvement in structure,

	<p>use of sources, style, grammar, and more. The Writing Center is located in Building 100, Room 211. Students can walk in during hours of operation or schedule an appointment at https://calendly.com/amscwritingcenter/30min</p> <p>❖ Tutor.com is a virtual space for students to access writing tutors outside of AMSC faculty. Access tutor.com in Brightspace by logging into your course. Next, click the 'Free Tutoring' tab and choose Tutor.com from the dropdown options. Students are granted five (5) hours per semester, and registration is not required. Contact the Center for Student Success and Advising at (404) 756-5690 for assistance.</p> <p>❖ TutorOcean is a tutorial for students enrolled in STEM courses such as Biology, Chemistry, Mathematics, and Computer Science. Access TutorOcean and sign up at https://atlm.tutorocean.com</p> <p>.</p>
Americans with Disabilities Act (ADA) Statement	<p>Atlanta Metropolitan College is committed to providing support for all students and making their college experience an enriching opportunity. In compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, The Department/Office of Counseling and Accessibility Services, located in the Student Services & Success Center, building 650-Suite 252, oversees the coordination of services for students with documented disabilities. The Coordinator of Disability Services collaborates with faculty and staff to offer provisions for reasonable accommodation to students who meet the requirements.</p> <p>It is the policy and practice of AMSC to make all Web information accessible to students with disabilities. If you, as a student with a disability, have difficulty accessing any part of the course materials for this class, please notify the instructor immediately.</p> <p>Accommodation cannot be provided until a reasonable accommodation plan is in place. To the greatest extent possible, all college representatives shall observe confidentiality.</p>
Office of Counseling and Accessibility Services	<p>The Office of Counseling and Accessibility Services operates under the Americans with Disabilities Act (ADA) laws in order to assist in leveling the playing field for students who have disabilities with those who do not.</p> <p>The amended ADA, otherwise known as ADAAAA defines “disability” as a physical or mental impairment that substantially limits one or more major life activities. If you feel that you have a disability or impairment that may limit your academic functioning, please contact Dr. Dorothy Williams, the Director of Counseling and Accessibility Services at 404-756-4016 or at</p> <p>https://www.atlm.edu/students/counseling-and-disability-services.aspx.</p>

	The Coordinator of Counseling and Accessibility Services reviews all accommodation requests. In order to receive accommodation, the student's illness or disability must be verified in writing by a physician, psychiatrist, or some other health care provider or specialist. Students choosing to access disability support services should contact the Coordinator as soon as possible after acceptance to AMSC. Please be aware that late notifications may result in complications for establishing accommodation in a timely fashion.
Withdrawal	<p>Withdrawal from a course is solely the responsibility of the student. Instructors will not initiate student withdrawals. A student who wishes to withdraw from a course MUST submit a completed Withdrawal Form (Schedule Reductions Form) to the Registrar's Office before mid-term in order to receive a grade of "W" for the course.</p> <p>A student who withdraws after the Midterm date receives a "WF" unless the Vice President for Academic Affairs determines that it is a hardship case, then a "W" will be recorded. The possibility that a student may fail the course will not be considered a hardship.</p>
Incomplete Grade Policy	An incomplete may be awarded at the instructor's discretion for non-academic reasons which prevent the student from completing the course requirements. The student must be passing the course at the time that the Incomplete is awarded and must sign an "Awarding of Incomplete" agreement. Unless otherwise stated, the incomplete should be removed by the end of the following semester; otherwise, the instructor will change the grade to an "F" grade.
Time Commitment	To successfully complete this course it requires discipline, devoted time and commitment. A student must arrange his / her schedule to allow for the required time for this course. Expect to spend a minimum of 9 hours per week.
Student Expectations	You are expected to refrain from profanity, crudeness, and slurs of any kind. You are also expected to treat your fellow students and instructor just as you would in the traditional classroom. Proper conduct applies to all forms of communication in the course. The penalty for not complying with these guidelines is removal from the course. Only the epitome of professionalism is expected of each student.
Extra Credit	Three extra credit points will be added to your lowest quiz grade for each tutor ocean or tutor.com tutorial session that you attend with accompanying proof of attendance. Please add one file with all proof of attendance documentation to the drop box. Only readable pdf or jpg files will be accepted.
Online Discussion Protocol	Please respond by thread and comment to at least <u>two</u> other classmates for full credit.
Degree Relevance and Enrollment Status	Students are ultimately responsible for ensuring that the course(s) in which they enroll are included in the approved degree plan and program map for their program of study. Students must periodically check their enrollment status in this course during the semester. The student is responsible for determining changes, if any in enrollment status and taking necessary steps (e.g. pursuing re-instatement in this course) following those outlined in the AMSC catalog
Abandoning a Course	Abandoning a course should be avoided at all cost. Abandoning a course instead of following official drop procedures will result in a grade of —F at the end of the course. It is the student's responsibility to initiate and complete the withdrawal process.

Academic Honesty	Only the epitome of professionalism is expected of each student. Cheating or the abetment of cheating is not tolerated. Per page 91-93 of the 2019-2020 Atlanta Metropolitan State College Catalogue the Penalties for Academic Misconduct states: <ul style="list-style-type: none">• In cases where a student is found guilty of cheating or exhibiting academic misconduct involving an instructor-generated assignment or examination, the instructor may impose a penalty.• Types of penalties may include, but are not limited to, the instructor assigning a grade of “F” for the assignment, the instructor not accepting the work, the student being assigned additional work, or the student receiving a grade reduction for the assignment. The maximum penalty the instructor may impose is a grade of “F” for the course. The instructor will impose the maximum penalty in this class in the case of academic dishonesty.														
Class Cancellation	Procedure regarding long-term emergency closure of the college (attendance policy): In the event of an emergency that forces the college to close for an extended period, students MUST contact the instructor of this class within 48 hours using the contact information (e.g., email address in BrightSpace/D2L) on the syllabus to obtain directions for continuing the course. The instructor will provide directions for the transmission and submission of course assignments and course assessments, including due dates. The student is responsible for submitting valid, accurate contact information, including an active AMSC email address to the instructor by the end of the first week of the course. Students can obtain an Atlanta Metropolitan State College Student email address in the Academic Support Center on the third floor of the Library Building. If the instructor for the course cannot be reached within the specified period (within 48 hours), the Dean of the School responsible for the course can be reached at the email address posted on the college’s website.														
Class Schedule	<table><tr><th>Projected Schedule</th><th>Lecture Topics</th><th>Lecture Chapter (CH)</th><th>Homework (disabled at 11:59 pm)</th><th>Quizzes / Exams (disabled at 11:59 pm)</th></tr><tr><td>Week 1</td><td>Intro Discussion Post Pre assessment Organic Chemistry</td><td>CH 10</td><td></td><td></td></tr></table>					Projected Schedule	Lecture Topics	Lecture Chapter (CH)	Homework (disabled at 11:59 pm)	Quizzes / Exams (disabled at 11:59 pm)	Week 1	Intro Discussion Post Pre assessment Organic Chemistry	CH 10		
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Week 1	Intro Discussion Post Pre assessment Organic Chemistry	CH 10													

	Week 1	Functional Groups / Alkanes	CH 10/11	CH 10/11	CH 10 Quiz
	Week 2	Alkanes	CH 11 and 12	CH 12	CH 12 Quiz
	Week 3	Alkenes & Alkynes	CH 12 & 13	CH 13	CH 13 Quiz
	Week 3	Benzene & Its Derivatives	CH 13		Exam 1 (Ch 10 -12)
	Week 4	Alcohols Ethers & Thiols	CH 14	CH 14	CH 14 Quiz
	Week 4	Chirality: The Handedness of Molecules	CH 15		
	Week 5	Chirality: The Handedness of Molecules	CH 15	CH 15	CH 15 Quiz
	Week 6	Amines	CH 16	CH 16	Exam 2 (Ch 13 – 15)
	Week 7	Aldehydes and Ketones	CH 17		
	Week 8	Carboxylic Acids	CH 18	CH 18	CH 17 Quiz

	Week 9	Carboxylic Anhydrides, Esters, & Amides	CH 19	CH 19	Exam 3 (Ch 16 – 18)
	Week 10	Carbohydrates	CH 20	CH 20	CH 19 Quiz
	Week 11	Lipids / Proteins	CH 21 / CH 22 (disabled)	CH 21 (disabled)	CH 20 Quiz
	Week 12	FINAL EXAM (COMPREHENSIVE)	N /A		FINAL EXAM
Grade Scale	Grading Scale: 100% - 90% = A 89% - 80% = B 79% - 70% = C 69% - 60% = D Below 60%= F				
Grade Distribution	Scales and Weights				
	Category	Weight		Assignment/Due Date	
	Exams	30%		<ul style="list-style-type: none"> • Exam 1 – 9/3-9/29 • Exam 2 – 9/29-10/27 • Exam 3 – 10/27-11/27 	
	Quizzes	20%		<ul style="list-style-type: none"> • Preassessment Survey – Due 9/8 • Chapter 10 Quiz 9/3-/24 • Chapter 11 Quiz 9/3-9/24 • Chapter 12 Quiz 9/3-9/24 • Chapter 13Quiz 9/24- 10/23 • Chapter 14 Quiz 9/24-10/23 • Chapter 15 Quiz 9/24-10/23 • Chapter 16 Quiz 10/23-11/23 	

			<ul style="list-style-type: none"> • Chapter 17 Quiz 10/23-11/23 • Chapter 18 Quiz 10/23-11/23 • Chapter 19 Quiz 11/23-12/6 • Chapter 20 Quiz 11/23-12/6
	Homework	15%	<ul style="list-style-type: none"> • Chapters 10 and 12 9/3-9/22 • Chapters 13 -15 9/22-10/20 • Chapters 16 - 18 10/20-11/20 • Chapter 19 – 20 11/15-12/4
	Lab Activities	20%	View laboratory links on the last page of this document. All lab assignments are due by December 6, 2025.
	Final Exam	15%	December 6-10, 2025
Grade Appeals and Student Complaint Policy and Process	<p>Please follow the Grade Appeals Process outlined in the AMSC Student Catalog, Pages 61/62.</p> <p>You can also refer to the Grade Appeal brochure at: https://www.atlm.edu/downloads/advisement/CAAS%20Grade%20Appeal%20Brochure.pdf</p> <p>For student complaint policy and process, refer to AMSC student catalog pages 51/52.</p>		
Frequently Asked Questions and Helpful Links			
I need:	LINK		
What is Brightspace (D2L) and how can I access it?	<p>Brightspace(D2L) is the virtual space where students access their online courses and some Face2Face class resources, quizzes, assignments, etc.</p> <p>You can access Brightspace (D2L) from https://atlm.view.usg.edu/</p> <p>You can also access Brightspace (D2L) from the College's webpage and click on Brightspace (D2L) on top.</p>		
Who is my Advisor? Where can I receive	Center for Academic Advising and Success (CAAS)		

Advisement and Tutoring assistance?	
What do I do if I face technical issues while taking a quiz or turning in an assignment in Brightspace	<p>https://d2lhelp.view.usg.edu/ You can reach the GaView Helpdesk 24/7/365 days at 18557724423</p> <p>If you are unable to submit a quiz or assignment or face a technical glitch, please contact the University System of Georgia's GaView Helpdesk at 1855 772 4423. The Helpdesk is open 24/7 all 365 days. If your issue cannot be resolved right away, the Helpdesk will issue a ticket to your Atlm Ginger email address. That ticket needs to be forwarded to your instructor to prove that you faced a technical issue that forced you to miss a deadline.</p>
I can't download Respondus Lockdown Browser. What do I do?	<p>If you are unable to download Respondus to your computer, please email the Office of Testing at Testing@atlm.edu at least 24 hours in advance requesting a testing appointment at the Testing Lab.</p> <p>For Respondus issues, please contact https://web.respondus.com/contact/.</p>
Where do I go for ADA Accommodations	https://www.atlm.edu/students/counseling-and-disability-services.aspx
I have a complaint. Where do I go?	Fill out and submit the Student Complaint form
I have an issue with my grade. How may I appeal my grade.	Read the brochure and follow the instructions to appeal your grade .
How do I Withdraw from a Course	Follow the Course Withdrawal Process here
I have a Hardship. How do I do a Hardship Withdrawal?	Follow the Hardship Withdrawal Process here
To Know the Campus Carry/HB 280 Policy	House Bill 280 Guidelines
Disclaimer	<i>Information contained in this syllabus and schedule was, to the best knowledge of the instructor, considered correct and complete when distributed for use at the beginning of the semester. This syllabus should be considered only a guide for instructor and students, not a formal contract between Atlanta Metropolitan State College and any student. The instructor reserves the right, acting within the policies and procedures of AMSC, to make changes in course content or instructional techniques.</i>

CHEM 1152K laboratory assignments will be completely online. Your lab assignments (click on it!) are listed below and may be completed at any time until the end of the summer semester. The completion of the labs may require registration. Each lab activity should be written up using a Title and Date (25pts) as a heading, followed by a Table of Data (25pts), Results (25pts) that discuss the meaning of your data, and a Conclusion (25pts) which ties your results to the overall purpose of the experiment. Completed lab write-ups should be uploaded into the drop boxes provided. No extended times will be provided. Labs will count as 15% of your total grade.

Lab Report Rubric:

Title, Experiment #, Date (25 pts)

Data/Observations (25 pts)

- Labeled appropriately
- Displays relevant data only
- Neatness
- What happened during your experiment
- Figure / Table citation(s)

Results (25 pts)

- Important trends / highlights
- What does your data mean
- Discuss the relevance of your data
- What does your data infer

Conclusion (25 pts)

- Interpretations merged into conclusion(s)
- Determination of experimental accomplishments
- How do results relate to your purpose
- Experimental protocol tweaking / future work
- References data to draw conclusions about what you've learned
- Revisits original hypothesis

Academic Honesty

Cheating and Plagiarism will not be tolerated. Academic dishonesty is defined as cheating and/or plagiarism. Cheating includes any attempt to defraud, deceive, or mislead the instructor in arriving at an honest grade assessment. Plagiarism is a form of cheating that involves presenting as one's own ideas the ideas or work of another. Any student found by the instructor to have engaged in academic dishonesty on a graded test, assignment, or examination will be assigned a grade of "F" for the course and may be withdrawn from the class. Since lecture and laboratory courses are co-requisites, dismissal with a grade of "F" from lab results in withdrawal from the lecture with a grade of "W" for lecture, and visa versa. The Atlanta Metropolitan State College Catalog describes the regulations governing the procedures related to such a matter and the protocol which will be followed. Should the student disagree with the decision of the instructor, a grade appeal should be filed.

Your lab assignments are listed below and may be completed asynchronously until the end of the summer semester. Labs should be completed in the Explorer search engine for best results. They also may require registration. Each lab will be accompanied by a 5 question quiz that must also be completed before the end of the semester. You will have 20 minutes in order to complete each quiz, the contents of which will come directly from the lab exercise.

DAY	CLAB 1152K	FALL 2024
Fall 2025	<u>INTRODUCTION TO SYLLABUS</u> <u>Check-in, Safety Training</u>	Virtual Safety Training
Fall 2025	<u>Alcohol Density Problem</u>	Virtual Lab
Fall 2025	<u>Exploring Oxidation-Reduction Reactions</u>	Virtual Lab
Fall 2025	<u>Dilutions</u>	Virtual Lab
Fall 2025	<u>Creating a Buffer Solution</u>	Virtual Lab
Fall 2025	TBA	Virtual Lab

Fall 2025	TBA	Virtual Lab
Fall 2025	TBA	Virtual Lab
Fall 2025	TBA	Virtual Lab
	All laboratory assignments are due December 6, 2025. No exceptions.	

Lab Report Rubric:

Title, Experiment #, Date (25 pts)

Data/Observations (25 pts)

- Labeled appropriately
- Displays relevant data only
- Neatness
- What happened during your experiment
- Figure / Table citation(s)

Results (25 pts)

- Important trends / highlights

- **What does your data mean**
- **Discuss the relevance of your data**
- **What does your data infer**

Conclusion (25 pts)

- **Interpretations merged into conclusion(s)**
- **Determination of experimental accomplishments**
- **How do results relate to your purpose**
- **Experimental protocol tweaking / future work**
- **References data to draw conclusions about what you've learned**
- **Revisits original hypothesis**