

CHM2046L GEN CHEM II LAB UF ONLINE

SUMMER A 2022

INSTRUCTOR INFORMATION

Instructor	Email/Office	Phone
Dr. Simon E. Lopez	Email in Canvas (preferred) simonlopez@chem.ufl.edu / LEI 312	Email preferred; (352)392-0700

GRADUATE TEACHING ASSISTANT

TBA.

AUDIO/VIDEO PRESENCE POLICY

Full audio/video presence is required for proctored tests administered by Honorlock.

GENERAL INFORMATION

COREQUISITES

CHM2046L is to be taken with CHM2046. Detailed prerequisite information and credit suitability can be found in the Undergraduate Catalog.

COURSE DELIVERY AND MEETING TIMES

This course is delivered in a hybrid format. Students complete virtual labs and other activities in Canvas and using the ALEKS platform. Students attend in person labs May 23-27 during the class meeting time. *All due date times are in EST.*

DESCRIPTION/GOALS

As both a general education requirement and major's course, CHM2046L is designed to introduce you to common laboratory techniques and equipment used in the general chemistry laboratory, to help you gain understanding and proficiency in their use, and help you explore the process of doing experimental chemistry, and to illustrate representative examples of the useful and important concepts you are learning in the CHM2045 lecture. The course serves to teach the scientific method, skills for problem solving, general chemistry knowledge, and a connection to the principles that govern the natural world.

LABS

Introductory assignments in the course are due the days after Drop/Add - check Canvas for due dates.

Each week you may be asked to participate in a variety of activities including virtual lab assignments, discussion board assignments, quizzes, graph creation, literature analysis, etc. The assignments contribute in a variety of ways to your overall course grade - keep reading this document for details.

All assignments submitted through Canvas can be turned in late for reduced credit, -25% per day submitted late, with the exception of the Final Exam.

Those submitted through the virtual lab platform (ALEKS) are submitted as is at their advertised due date/time for full credit. Each can be turned in up to 7 d late for -50% credit.

COURSE MATERIALS AND SAFETY

REQUIRED MATERIALS

You require a computer with internet connection, webcam, microphone, Excel, and a portable mirror or reflective surface for Honorlock proctoring. See the minimum technical requirements at honorlock.com/support. Ensure your computer system meets their minimum system requirements.

You also require a suitable laboratory notebook such as a standard composition notebook.

Access to the virtual lab platform (ALEKS) is required. Students with active ALEKS360 subscriptions for CHM2046 lecture at UF will be provided with an access code. Students without, will be required to purchase a code.

COURSE TECHNOLOGY

All UF students are expected to have reliable access to a computer, especially for an online course. Honorlock has specific hardware/software requirements: honorlock.com/support. Check the support page for ALEKS for technical support using their platform: <https://mhedu.force.com/aleks/s/>.

SAFETY

You are responsible for reviewing the safety information provided in Canvas.

In addition, there is a series of safety-focused assignments within most of the lab activities. Together, the safety assignments are worth a dedicated portion of your course grade.

DUE DATE SCHEDULE (SUBJECT TO CHANGE)

THEME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
ORIENTATION WEEK	May 9 No assignments due; drop/add	10 No assignments due; drop/add	11 Discussion: Introductions Practice Quiz (how to take a quiz) Netiquette Quiz	12 Verification of Software Verification of VPN	13 Syllabus Quiz Safety Contract Safety Quiz for CCB 110 Virtual Lab Tutorial (ALEKS)
1 ST WEEK ONLINE LABS	16 ALEKS Lab Skill #1: Using a Balance #2: Using a Graduated Cylinder ALEKS Lab: Kinetics (start)	17 ALEKS Lab Skill #3: Using an Alcohol Thermometer #4: Using a Ruler	18 Practice Assignment Safety Photo	19	20 ALEKS Lab: Equilibrium Constant (start) ALEKS Lab: Kinetics (due)
IN PERSON LAB WEEK Pre lab assignments are due before lab period	23 Beer's Law	24 Le Chatelier	25 Thermo	26 Electrolytic Cells ALEKS Lab: Equilibrium Constant (due)	27 Transition Metals
IN PERSON LAB ASSIGNMENTS DUE	30 HOLIDAY	31 Beer's Law & le Chatelier post lab	June 1 Thermo post lab assignments due	2 Electrolytic Cells post lab assignments due	3 Transition Metals post lab assignments due

		assignments due Le Chatelier Safety Quiz due	Thermo Safety Quiz due	Electrolytic Cells Safety Quiz due	TM Safety Quiz due
ONLINE LABS; IN PERSON ASSIGNMENTS DUE	6 ALEKS Lab: Buffers & Buffer Capacity (start) Equilibrium Constant Safety Quiz due	7 Beer's Law Safety Quiz due	8 ALEKS Lab: Titration (start) Acids and Bases Safety Quiz due	9	10 ALEKS Lab: Buffers & Buffer Capacity (due)
FINISHING UP	13 ALEKS Lab: Electrochemistry (start)	14 Practice Honorlock Quiz Lab Exam (HONORLOCK)	15 Safety Quiz (ACS) ALEKS Lab: Titration (due)	16	17 ALEKS Lab: Electrochemistry (due)
	20 Grades Due				

ATTENDANCE INFORMATION

ABSENCES FOR IN PERSON LABS

Requirements for class attendance in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>. Students who must miss lab due to extreme circumstances beyond their control must contact Dr. Lopez as soon as possible to discuss making up the missed lab in person.

Please understand that personal issues with scheduling conflicts, such as volunteering, work, non-emergency dentist or doctor appointments, extracurricular activities, or travel, do not justify a deadline extension.

GRADING

DEALINES AND LATE POLICY

For best performance on Quizzes, use only Firefox or Chrome for quizzes. Chrome must be used for the Exam. Make sure you start well in advance of the due date/time, in case your computer's clock differs from official Canvas time. There are no extensions due to travel or computer issues. All due date/times are in EST.

For all assignment submissions, the late penalty is applied even if the submission is received one second past the deadline, so be mindful of time. The late penalty is quite strict; 1 s after the deadline is penalized as a full day late. Emailed assignments are not considered for grading. We highly recommend you submit assignments early and verify they've been submitted through Canvas. We recommend using computers to turn in work rather than apps on a student's phone. Verify all submissions. All due dates/times are in EST.

EXAM

A final lab exam will be available over a 24 h period on June 14. The exam is timed, and 2 h in duration once you begin.

Exam absences will be handled in accordance with official UF academic regulations. For more information, see <https://catalog.ufl.edu/UGRD/academic-regulations/> . See below for further clarification for two different types of situations.

(1) Conflicts with other events: this should be rare, as the final exam is during the registrar scheduled lab period. Such reasons may include religious holidays, military obligations, special curricular requirements (e.g., attending professional conferences), or participation in official UF-sanctioned activities such as athletic competitions, etc. For more information on such absences see the official UF Policy at <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/#absencestext>). If you must be absent for an exam due to a documented and approved conflict known in advance, you must e-mail your instructor (within Canvas) the documentation at least one week prior to the scheduled exam and an early conflict exam will be scheduled for you.

(2) Missing an exam due to an emergency or sudden illness: If you are absent for an exam due to an unpredicted documented medical reason or family emergency, you must contact the instructor as soon as possible, and you may be asked to have your excuse verified by the Dean of Students Office (DSO). Your instructor will follow UF academic regulations in evaluating the notification and/or documentation received from you or from the DSO on your behalf. Once your instructor is satisfied with the validity of your exam absence a make-up exam will be scheduled after a reasonable amount of time, i.e., before the end of the semester. If your documentation is deemed insufficient to excuse your absence you will receive a zero on the missed exam.

HONORLOCK

Honorlock will proctor your exams this semester. You do not need to create an Honorlock account, download software, or schedule an appointment for your exam. Honorlock is available 24/7 and requires a computer, webcam, microphone, and a stable internet connection.

To get started, you will need Google Chrome and to download the Honorlock Chrome Extension. You can download the extension at www.honorlock.com/extension/install.

When you are ready to test, log into Canvas, go to your course, and select your exam. Click "Launch Proctoring" to begin the Honorlock authentication process, during which you will take a picture of yourself, show your ID, and complete a scan of your room. You will need a small handheld mirror/reflective surface

to show the camera underneath your table/desk, etc. Honorlock will record your exam session and record your screen.

If you encounter technical difficulties with Honorlock, contact Honorlock directly. You may live chat, phone (855-828-4004) and/or email support@honorlock.com. You should spend some time reading about their service and testing your system on their website. For other technical issues contact the Help Desk.

Extensive Honorlock documentation, including a student privacy guide, is available at <https://dce.ufl.edu/services/online-proctoring/>.

GRADE BREAKDOWN

Each laboratory exercise is comprised of a Pre-Lab quiz, a notebook grade, a Post-Lab exercise, and various other assignments specific to that lab. Each lab exercise as a whole is weighted equally to your final grade. Within each lab exercise, assignments are weighted according to the published point value. If there is any confusion about this, please see me. Detailed information regarding each of these grading items is provided in Canvas.

Assignment weights are as follows:

Assignment Group	Weight %
Safety Assignments/Surveys/Syllabus Quiz	5%
ALEKS Lab Skills #1-4	5%
5 In Person Labs (each weighted equally)	50%
5 ALEKS Virtual Labs	25%
Lab Exam	15%

Grade scale (note: there is no rounding to your score in Canvas):

Letter	A	A-	B+	B	B-	C+	C	D+	D	D-	E
Cutoff	93.0	90.0	86.0	83.0	80.0	76.0	70.0	66.0	63.0	60.0	< 60.0

RE-GRADES

All Canvas lab assignment grades are graded by your TA so you should communicate any disputes directly to your TA via Canvas email. Your TA will address your concerns. Note that your assignments must be scanned and submitted to Canvas as a .pdf to the correct assignment in order for points to be considered towards your overall course grade.

For ALEKS technical support please reach out directly to ALEKS.

Regrades of assignments submitted through Canvas, typically via file upload, must be requested within 7 days of a grade being assigned, and should be directed to your TA. If there was a technical issue with submission of the file, the file can be resubmitted to the comments section for a regrade but the

assignment will suffer a 50% penalty. Technical issues are completely avoidable, as students can submit an assignment, verify it has been submitted correctly, and verify the contents of the file submission prior to the deadline. Do not use the mobile app to submit assignments.

UNIVERSITY POLICIES

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES

Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida. The following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>.”

U MATTER, WE CARE

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing Staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

EVALUATIONS

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will

be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

NETIQUETTE

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions, and chats. Review the detailed information regarding Netiquette in Canvas. Make sure you complete the Netiquette Quiz, which counts towards your survey/syllabus/safety grade.

GENERAL EDUCATION

This course satisfies the General Education requirement in the Physical Sciences.

A minimum grade of C is required for general education credit.

PHYSICAL SCIENCE GENERAL EDUCATION PROGRAM OBJECTIVES

Physical science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the physical sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern physical systems. Students will formulate empirically-testable hypotheses derived from the study of physical processes, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

These objectives are accomplished through participation in the lab sections, and individual work done on homework assignments and assessments.

GENERAL EDUCATION STUDENT LEARNING OUTCOMES

Area	Institutional Definition	Institutional SLO
CONTENT	Content is knowledge of the concepts, principles, terminology and methodologies used within the discipline.	Students demonstrate competence in the terminology, concepts, methodologies and theories used within the discipline.
COMMUNICATION	Communication is the development and expression of ideas in written and oral forms.	Students communicate knowledge, ideas, and reasoning clearly and effectively in written or oral forms appropriate to the discipline.
CRITICAL THINKING	Critical thinking is characterized by the comprehensive analysis of issues, ideas, and evidence before accepting or formulating an opinion or conclusion.	Students analyze information carefully and logically from multiple perspectives, using discipline specific methods, and develop reasoned solutions to problems.

Naturally, all three areas of learning outcomes will be assessed in all categories of graded assignment administered in CHM2046L.

SPECIFIC GOALS OF CHM2046L

You will be required to analyze scientific concepts and think critically. This means being able to answer both quantitative (mathematical) and conceptual (qualitative) problems in a limited period of time.

Additionally, you will have to write and/or orally communicate during your scheduled lab periods. You will be required to utilize the methods of science as a logical means of problem solving through critical thinking. This means you must analyze information carefully and logically from multiple perspectives, using discipline specific methods, and develop reasoned solutions to problems. To ensure your competency in these concepts you will be required to complete quizzes and assignments that require critical thinking, analysis of problems, and drawing conclusions. Of particular importance in the lab course will be your ability to collect data, organize the data logically, generate a meaningful graphical representation of the collected data, and draw conclusions from the total exercise. There is also a focus on an introduction to chemical safety.

DISCLAIMER

This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.