

CHM2046 UFO GENERAL CHEMISTRY II

SUMMER 2025

CLASS NUMBER: 13590, 17997

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INSTRUCTOR INFORMATION

| Instructor | Email | Office Location & Hours |
|------------------------------------|-----------------------------|---|
| Dr. Stacey-Ann Benjamin | Email in Canvas <u>only</u> | Virtual Office Hours via Zoom Mondays 11:00 am - 12:00 noon Wednesdays 7:00 pm - 8:00 pm Thursdays 11:00 am - 12:00 noon |
| Graduate Teaching Assistant TBA | Email in Canvas <u>only</u> | Virtual Office Hours via Zoom TBA |

GENERAL INFORMATION

CREDITS/PREREQUISITES

3 credits. Prerequisites: a C or higher in CHM 2045 and MAC1147 or the equivalent. Students who completed CHM 2045 or equivalent at another institution should consult a chemistry advisor before registering for this course.

COURSE DELIVERY/MEETING TIMES

This is a 100% online course. Virtual office hours (zoom conferences) will be scheduled at various times throughout the semester and can be made by appointment.

COURSE DESCRIPTION/GOALS

The second semester of the CHM 2045/CHM 2045L and CHM 2046/CHM 2046L sequence. Kinetics review, acids and bases, additional aspects of chemical equilibria, thermodynamics, electrochemistry, complex ions and descriptive chemistry. (P).

As both a general education requirement and major's course CHM 2046 serves to teach the scientific method, skills for problem solving, general chemistry knowledge, and a connection to the principles that govern the natural world.

Specifically, students will be able to:

1. Clearly communicate in writing information derived from course-related readings/lectures about the major concepts and themes in the chemical sciences.
2. Apply knowledge of the fundamental principles of chemical, acid/base and aqueous equilibria to perform related calculations and make predictions of system behavior.
3. Describe and apply the fundamental principles of thermodynamics and electrochemical systems.
4. Describe the properties of complex ions and coordination compounds. Identify the importance of elements in nature and industry.

5. Analyze chemical principles in advanced applications.

FIRST DAYS

Log into Canvas and access the course. You should check frequently for new *Announcements* and/or emails containing important information and reminders. Click on the *Syllabus* tab. Click on *Modules* and read all the information under the *Orientation* section as many of your questions are answered there.

GENERAL EDUCATION OBJECTIVES AND LEARNING OUTCOMES

Primary General Education Designation: Physical Sciences (P) ([area objectives available here](#))

A minimum grade of C is required for general education credit. Courses intended to satisfy the general education requirement cannot be taken S/U.

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.

The course objectives align with the UF General Education student learning outcomes and [physical science area learning outcomes](#):

| General Education SLO | Physical Science SLO | Course Objective Alignment | Assessment |
|-----------------------|---|----------------------------|--|
| Content | Identify, describe, and explain the basic concepts, theories and terminology of natural science and the scientific method; the major scientific discoveries and the impacts on society and the environment; and the relevant processes that govern biological and physical systems. | Objectives 1-5 | All assessments and student practice assignments offer opportunities for students to demonstrate content knowledge. |
| Critical Thinking | Formulate empirically-testable hypotheses derived from the study of physical processes or living things; apply logical reasoning skills | Objectives 1-5 | Independent Practice: <ul style="list-style-type: none">Graded HomeworkGraded Worksheets Formative: <ul style="list-style-type: none">Quizzes |

| | | | |
|---------------|---|---------------------|--|
| | effectively through scientific criticism and argument; and apply techniques of discovery and critical thinking effectively to solve scientific problems and to evaluate outcomes. | | <ul style="list-style-type: none"> Practice Exams Summative: 4 Exams |
| Communication | Communicate scientific knowledge, thoughts, and reasoning clearly and effectively. | Objectives 1, 3 - 5 | <ul style="list-style-type: none"> Meeting with TA/ discussions |

COURSE LEARNING OUTCOMES

A complete list of student learning outcomes is posted in Canvas, organized by module/chapter.

COURSE MATERIALS

TEXTBOOK (ONLINE EBOOK WITH HW; REQUIRED IN FULL)

Required: ALEKS 360, which includes the eBook: M. Silberberg, “Chemistry: The Molecular nature of Matter and Change with Advanced Topics,” 10th ed., McGraw-Hill, New York 2024.

This course is participating in UF All Access. At the beginning of the first day of the semester students can opt in to consent to have the purchase price charged to your student account. Alternatively, you can purchase an access code for the materials at the UF Bookstore. The opt-in code is the comprehensive package (ALEKS homework and the eBook of Silberberg).

To opt in, navigate to: <https://bsd.ufl.edu/allaccess>. Click the “Opt In” tab or view the “View Eligible UF All Access Classes” button. You will be prompted to log in using Gatorlink credentials. Follow the prompt to authorize charges to your student account. The access code will then be provided. Copy the access code to your clipboard. In the Canvas course, click on the ALEKS from the navigation bar, and provide the access code when prompted to do so. If you have any questions about the authorization process or refunds contact Included@bsd.ufl.edu.

See the ALEKS page in Canvas in the Orientation Module for a walkthrough video for instructions on viewing the textbook and navigating within ALEKS.

A paperback version of the text is completely optional. The bookstore may stock paper versions of the text, or you can order one directly through the McGraw Hill website. A paper version is on reserve at the Marston Science Library for reference purposes.

All other assigned material will be available through Canvas.

CALCULATORS

A nonprogrammable, scientific calculator is required for this course. Calculators are allowed during exams

but may NOT be shared. Graphing and programmable calculators are NOT permitted during exams. Cell phones and other electronic devices may NOT be used during exams for calculations or any other reason.

WEBCAM/MICROPHONE/SPEAKERS

You are required to have a functioning webcam, microphone, and speakers for proctored exams. See the technical requirements at www.proctoru.com. Verify that your operating system is compatible with ProctorU. (ProctorU currently does not support Chromebooks, for example.)

COURSE TECHNOLOGY

The student may require Adobe Acrobat Reader, Adobe Flash Player, Microsoft Silverlight and other software. You may wish to use Microsoft Excel or Word for written assignments. Free tutorials on many software applications can be found at Lynda.com. All UF students are expected to have reliable access to a computer, especially for an online course. ProctorU has specific hardware/software requirements: <http://www.proctoru.com/tech.php>. Check the support page for ALEKS for technical support using their platform: <https://mhedu.force.com/aleks/s/>.

COURSE COMMUNICATIONS

GENERAL QUESTIONS

General course questions should be posted to the General Help Forum in Canvas. The instructor response time is 24-48 h during the work week (expect to wait until Monday for questions posted on a Friday). Chapter-specific questions should be posted to the appropriate Study Room; participation in the Study Rooms is for credit.

I encourage you to post questions related to ALEKS homework or end of chapter questions you're working on to the Study Rooms. The homework isn't meant to be a test, it's a learning tool. For the best response, take a screenshot of your question and/or the solution you propose. The more information you provide, the easier it is for your instructor/another student to help.

PRIVATE OR GRADE-RELATED QUESTIONS

Direct these to your instructor via the mail function in Canvas. Do not email outside of Canvas to your instructor's external email address - we aren't permitted to discuss grade related questions outside of Canvas. You will be asked to resend the query through Canvas.

COURSE POLICIES - GRADED COMPONENTS

QUIZZES

Chapter quizzes are delivered in ALEKS. These quizzes are not proctored, but are timed at 90 minutes each, and are subject to the Honor Code. It is recommended that you watch the corresponding lecture videos and complete all your assignments prior to attempting each quiz. There is a 50% ALEKS chapter module completion prerequisite for attempting quizzes. That is, you must complete at least 50% of the chapter's homework assignment before you are permitted to attempt the chapter quiz in ALEKS.

When you're ready to begin, simply click 'Assignments' from the dropdown menu in ALEKS and select your chapter quiz. Graded quizzes can be submitted up to five days late for reduced credit, 20% penalty per day submitted late. The last possible date any quiz can be completed for credit is the last day of term, 11:59

pm August 8th. Note that if a quiz is submitted even 1 s after the due date/time, the late penalty will apply.

The one lowest ALEKS Quiz grade is dropped from your overall course grade.

EXAMS

Three 2-hr progress exams and one 2-hr cumulative final exam are administered in Canvas. Due to the nature of this course's content, the topics assessed on each progressive exam are cumulative so questions may include previously covered concepts which the student is expected to have already mastered. You must use a non-graphing non-programmable scientific calculator on exams (with log, ln, root, and exponent (scientific notation) functions). 2 points will be deducted from your score if you neglect to sign the Honor Pledge question at the end of every exam.

EXAM PROCTORING

All exams are remotely proctored. In-person examinations are not an option for this 100% online course. Exam dates are as follows:

Exam 1: May 30th; Exam 2: June 18th; Exam 3: July 22nd; Final Exam: August 7th

Two proctoring services will be used to administer exams. For residential students in the distance learning sections, please follow Honorlock proctoring instructions below. For UF Online students, please follow the Proctor U instructions below.

HONORLOCK FOR RESIDENTIAL (DL) SECTIONS

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 "Take the Quiz" to begin the Honorlock authentication process, during which you will take a picture of yourself and show your ID. Honorlock will record your exam session and record your screen. Honorlock also has an integrity algorithm that can detect search-engine use, so please do not attempt to search for answers, even if it's on a secondary device.

Honorlock support is available 24/7/365. 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 at <https://honorlock.com/support/>. For other technical issues contact the Help Desk.

To help you prepare for an exam proctored by Honorlock, please read:

<https://dce.ufl.edu/media/dceufledu/pdfs/Honorlock-Student-Exam-Preparation-Information.pdf>

A Honorlock student privacy guide is available at: <https://honorlock.com/student-privacy-statement/>

PROCTORU FOR UFO STUDENTS

All your exams are remotely proctored by ProctorU. It is your responsibility to register with ProctorU and reserve an exam time on the assigned dates during available times. To do so, click on the ProctorU tab in Canvas. Reservations (exam start times) are available for each during-the-term exam beginning at 6 pm, through 8 pm only. The final exam will have start times beginning at 11:30 am through 1:30 pm.

If you fail to make a reservation sufficiently in advance (>72 h) a late fee may be assessed by ProctorU, and you may have difficulty obtaining a desirable time. Failure to reserve a time slot in advance is not an accepted excuse for a late exam. A significant penalty is assessed for missing an exam.

If you encounter technical difficulties with ProctorU, contact ProctorU directly <https://support.proctoru.com/hc/en-us/articles/35647417336973-Test-Taker-Support>. If you have trouble navigating their reservation system, call them (855-772-8678) for assistance.

To help you prepare for an exam proctored by Honorlock, please read:

<https://support.proctoru.com/hc/en-us/articles/25557846449037-How-to-Get-Started-with-the-ProctorU-Platform>

ADDITIONAL EXAM POLICIES

If you suspect an error in the grading of an exam, it is your responsibility to notify your instructor via email within one week of the grade being posted on Canvas for consideration. No grade change considerations or changes will be made after this one week period.

PROGRESS EXAM “AVERAGE/REPLACE” POLICY

This applies to all students. No progress exam score will be dropped for any reason. To alleviate the stress of potential issues that do not fall under officially sanctioned absences, we have incorporated an “average/replace” policy: the lowest of the three progress exams will be replaced by the average of the three progress exams. This policy helps to minimize the impact of a single poor performance (it will not disappear but will be minimized). For example, if a student scores the following on their three progress exams: 0%, 65%, 80%, the 0% would be replaced with the average of 0, 65 and 80, which is 48%. That is a much better score than a 0.

ALEKS MODULES (HOMEWORK)

Access the electronic homework and eBook directly from within Canvas by selecting ALEKS from the navigation bar. A significant portion of your grade stems from on-time completion of equally weighted *ALEKS Modules*. Whatever percentage of the topics you complete on time within an objective will count for credit - i.e. if you complete 7 of 10 topics within a particular module assignment you will earn 70% credit for that objective, or 7/10 points for that objective. The average completion time is approximately 3 topics/h, system-wide in the ALEKS system. Plan your time accordingly.

ALEKS is set up in a specific manner - you will need to complete some topics to proceed to the next topic, as topics and concepts in chemistry build on one another. There isn't a way to disable this setting. You are encouraged to work on assignments early and frequently for short periods of time, no more than 2 or 3 h at a sitting. ALEKS modules cannot be completed late for credit.

The one lowest ALEKS Modules grade is dropped from your overall course grade.

ALEKS PIE

A significant portion of your grade stems from completion of your ALEKS Pie by the last day of classes. The work you do on ALEKS Modules counts towards this goal. You can catch up or work ahead on your pie progress during Open Pie periods. Whenever you complete an ALEKS Module before its due date/time you also will enter Open Pie mode. Pie progress is calculated as $(\# \text{ topics completed} / \text{total } \# \text{ topics}) * 100\%$. The pie progress % you view in ALEKS is a good estimate of this, but the precise value according to the calculation above is used in your grade calculation in Canvas.

LECTURE VIDEO PLAYPOSIT QUESTIONS

The material from each chapter that will be covered in this course is arranged by individual Modules in Canvas. Lecture videos that are enhanced with graded PlayPosit questions are provided in each chapter lesson. Please watch the videos in their entirety and answer the proposed questions at various timepoints throughout the videos. The PlayPosit questions are intended to check for understanding of the concepts that are presented in each video. There will be a displayed deadline for earning full credit. You will have five (5) attempts for each PlayPosit question, and you can earn up to 2% toward your course grade by answering the questions.

The one lowest lecture video PlayPosit score is dropped from your overall course grade.

PERUSALL DISCUSSIONS/WORKSHEETS

A portion of your grade stems from completing Perusall discussion assignments. Perusall is an e-reader and platform used to help students collaboratively engage with course material as you prepare for assignments and exams. You are expected to contribute to problem-solving discussions on questions provided from each chapter according to the advertised timeline in Canvas. You will be graded based on the quality, frequency, and value of your submissions, annotations, and responses to others' annotations/questions.

To earn a grade for each chapter, you must:

1. Select three questions from the provided list in Perusall and upload a .doc or PDF file showing how to solve the questions, including calculations and/or a written explanation. **You are not permitted to choose a question that has already been chosen.** If all the questions on the list have already been explained, you may choose questions from an approved list of end-of-chapter questions in your textbook.
2. Look at the answers submitted by at least **two** other students and provide meaningful comments or ask for clarification/additional explanation.
3. Provide a score for the submissions you commented on or other submissions of your choice. **You cannot score your own work.**
4. Reply to the peer comments you receive on your submission.

For technical help with assignment submissions, contact the UF Help Desk.

Perusal discussion assignments can be completed late, with a late penalty of 50%. Late work may be assigned to other late submitters for review when applicable. Note that if a worksheet is submitted even 1 s after the due date/time, the late penalty will apply.

The one lowest Discussion/Worksheet grade is dropped from your overall course grade.

NOTES

Students are required to take notes while watching the lesson videos in each module and reading material in the textbook. Note-taking helps with exam preparation and is recommended as a best study practice. You will upload your notes in, .doc or pdf. file format, to Canvas for credit.

Notes are submitted via an auto-graded survey, and students will receive points upon submission. However, the instructor will spot-check responses. Submissions not meeting the quality and content expectations outlined in the rubric may have points deducted. Students should take the time to respond thoughtfully and thoroughly. Once the instructor has reviewed the submissions, grades will be manually released in Canvas.

For technical help with assignment submissions, contact the UF Help Desk.

Note that if participation (original entry and/or responses) is submitted even 1 s after the due date/time, no credit will be applied.

OFFICE HOUR CHECK-INS

The student is expected to check in during office hours at least once every three weeks. These check-ins are intended to provide communication with your instructor and graduate TAs to ensure that you are keeping up with the course material, to assist with solving practice questions, to address course related concerns, and/or to discuss best study practices. You will log in during office hours for check-ins via zoom conference and full credit will be awarded if a minimum of four (4) of those meetings take place. Zoom sessions will not be recorded by the instructor/TA and may not be recorded by students. As in all courses, unauthorized recording and unauthorized sharing of recorded material is prohibited.

ADDITIONAL COURSE POLICIES

ASSIGNMENT DUE DATES AND EXTENSIONS

All due dates for assignments are clearly posted in the course assignments of the Canvas page and reflect the most up-to-date information. The deadline for assignments is 11:59 p.m. on the day stated on the lecture schedule. All assignments/quizzes must be completed by the stated due date and time for credit. Extensions for assignments (exams are covered under the General Chemistry Exam Absence Policy) can be requested due to illness or emergent situations.

You will be asked to have your situation verified by the Dean of Students Office before such an extension is considered. Information on requesting an excuse note can be found here:

<https://care.dso.ufl.edu/instructor-notifications/>

A Dean of Students note verifying documentation of illness or a personal matter must be provided for at least 50% of the days allocated for completion of the assignment (for example, if the duration of a Module is six days, documentation of illness or a personal matter should be provided for at least three of those days) for accommodations to be considered. Extensions will NOT be given because of technical or personal issues that occur within 24 hours of the assignment deadline.

Exam dates are firm, and all assignments must be completed by the last day of term. Exam absences will be handled in accordance with official UF academic regulations.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

See below for further clarification for two different types of situations.

(1) Conflicts with other events: acceptable 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.

GRADING

GRADE POLICY

There is no extra credit available for this course beyond the generous dropped assignment policy. Grades are not rounded at the end of term. Exam grades or course grades are not curved. Take care to complete each assignment prior to its advertised due date and to submit assignments as directed. Contact the UF Help Desk for help with Canvas.

Please refer to the catalog for UF grading policies for assigning grade points: <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>. A minimum grade of C is required for general education credit. Courses intended to satisfy the general education requirement cannot be taken S/U.

Assignments weights are as follows:

| Assignment Group | Weight % |
|-------------------------------|----------|
| ALEKS Modules | 4% |
| ALEKS Pie Progress | 4% |
| Progress Exams (3 @ 18% each) | 54% |

| | |
|-----------------------------------|-----|
| Cumulative Final Exam | 21% |
| Quizzes | 5% |
| Lecture Video PlayPosit Questions | 4% |
| Perusall Discussions/Worksheets | 5% |
| Lecture Notes | 2% |
| Office Hour Check-Ins | 1% |

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 | 90.0 | 86.0 | 83.0 | 80.0 | 77.0 | 73.0 | 69.0 | 66.0 | 63.0 | 60.0 | <60.0 |

GRADE DISPUTES

Should a student wish to dispute any score received in this class, the dispute must be in writing and be submitted to the instructor via Canvas mail within 96 h of the score being posted in Canvas, and within 24 h for the Final Exam. After one week passed since the grade was posted and the student made aware of the posting of the grade(s) to Canvas, the instructor considers those grades final.

UNIVERSITY POLICIES

AUDIO/VIDEO PRESENCE POLICY

Zoom Check-ins with the instructor and/or TA office hours sessions are not generally recorded. Should it be necessary to record a session, an announcement will be made in advance. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who are un-mute during sessions and participate verbally agreeing to have their voices recorded.

If you are not willing to consent to have your voice recorded, you will need to keep your mute button activated and communicate exclusively using the 'chat' feature, which allows students to type questions and comments live. The chat will not be recorded or shared.

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

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting

disability.ufl.edu/students/get-started. It is important for students to share their accommodation letter with their instructor and discuss their access needs as early as possible in the semester.

The student is responsible for scheduling the exam dates with the DRC. Students with disabilities should follow this procedure as early as possible. The DRC has 4 business day policy to submit Accommodated Testing Requests (ATRs). 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. Any SCCR sanctions given will also result in a score of zero on the assessment in question. Should the violation be related to one of the three progress exams, the average/replace policy will also be rendered null and void. For more information regarding the Student Honor Code, please see: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

AI POLICY

Students may use generative artificial intelligence (AI) tools—such as ChatGPT—as a **tutoring resource** to support their understanding of chemistry concepts. These tools can be helpful for reviewing content, asking clarifying questions, exploring alternative explanations, and practicing problems. However, all **submitted assignments, ALEKS quizzes, and exams must reflect the student’s own original work**. Generative AI must not be used to generate responses or solve problems that are submitted for a grade.

Because AI tools can produce content that is inaccurate, misleading, or inappropriate for scientific contexts, students are responsible for verifying the accuracy of any information provided by AI.

Use of AI in a way that violates these guidelines may constitute a violation of the University of Florida Honor Code. Expectations for AI use may differ across courses and instructors. Students should contact the instructor with any questions about appropriate use.

Adapted from Harvard University’s AI Guidance: <https://oue.fas.harvard.edu/ai-guidance>

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.

INCLUSIVE LEARNING ENVIRONMENT

We embrace the University of Florida's Non-Discrimination Policy, which reads, "The University shall actively promote equal opportunity policies and practices conforming to laws against discrimination. The University is committed to non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinion or affiliations, genetic information and veteran status as protected under the Vietnam Era Veterans' Readjustment Assistance Act." We are committed to fostering an open and inclusive classroom and laboratory environment in our College, where every student, guest instructor and contributor feels valued. Multicultural and Diversity Affairs (MCDA) is a department within the Division of Student Affairs that celebrates and empowers diverse communities and advocates for an inclusive campus for all students across identities. If you have questions or concerns about your rights and responsibilities for inclusive learning environment, please see your instructor or refer to the Office on Multicultural & Diversity Affairs Website: <https://multicultural.ufl.edu/>

COUNSELING AND WELLNESS CENTER

Visit <https://counseling.ufl.edu/> or call 352-392-1575 for information on crisis services as well as non-crisis services.

Other resources are available at <http://www.distance.ufl.edu/getting-help> for Counseling and Wellness resources, disability resources, resources for handling student concerns and complaints, and library desk support.

FEEDBACK

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online. Students can complete evaluations in three ways:

1. The email they receive from GatorEvals,
2. Their Canvas course menu under GatorEvals, or
3. The central portal at <https://my-ufl.bluera.com/>

Guidance on how to provide constructive feedback is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens. 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. <http://biostat.ufl.edu/resources/e-learning-resources/e-learning-basics/etiquette-online/>

GETTING HELP

For issues with or technical difficulties with Canvas, contact the UF Help Desk: <https://it.ufl.edu/helpdesk/>; (352)-392-HELP.

PRIVACY AND ACCESSIBILITY POLICIES

- Adobe
 - [Adobe Privacy Policy](#)
 - [Adobe Accessibility](#)
- Honorlock
 - [Honorlock Privacy Policy](#)
 - [Honorlock Accessibility](#)
- Instructure (Canvas)
 - [Instructure Privacy Policy](#)
 - [Instructure Accessibility](#)
- Microsoft
 - [Microsoft Privacy Policy](#)
 - [Microsoft Accessibility](#)
- Perusall
 - [Perusall Privacy Policy](#)
 - [Perusall Accessibility](#)
- PlayPosit
 - [PlayPosit Privacy Policy](#)
 - [PlayPosit Accessibility](#)
- ProctorU
 - [ProctorU Privacy Policy](#)
 - [ProctorU Accessibility](#)
- Sonic Foundry (Mediasite Streaming Video Player)
 - [Sonic Foundry Privacy Policy](#)
 - [Sonic Foundry Accessibility](#) (PDF)
- McGraw-Hill ALEKS
 - [McGraw-Hill ALEKS Privacy Policy](#)
 - [McGraw-Hill ALEKS Accessibility](#)
- YouTube (Google)
 - [YouTube \(Google\) Privacy Policy](#)
 - [YouTube \(Google\) Accessibility](#)
- Zoom

- [Zoom Privacy Policy](#)
- [Zoom Accessibility](#)

COURSE TOPICS

The following list details the order of topics that will be covered in this course:

Chapter 17: Equilibrium: The Extent of Chemical Reactions

Chapter 18: Acid-Base Equilibria

Chapter 19: Ionic Equilibria in Aqueous Systems

Chapter 20: Thermodynamics: Entropy, Free Energy, and Reaction Direction

Chapter 21: Electrochemistry: Chemical Change and Electrical Work

Chapter 14: Periodic Patterns in the Main-Group Elements

Chapter 23: Transition Elements and their Coordination Compounds

Chapter 24: Nuclear Reactions and their Applications

TENTATIVE WEEKLY SCHEDULE

The following schedule is tentative, but exam dates will not change. Note: this is designed to replicate F2F class. Reading times are approximately 2 min/page.

| Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|--|---|---|
| May 12 Orientation Module | 13 Module 1 Lesson 17.1 Read Ch. 17. 1 - 17.2 p 745 - 754 | 14 Lesson 17.2 Read Ch. 17.3 - 17.4 p 755 - 759 Orientation Quiz | 15 Lesson 17.3 Read Ch. 17.5 p 759 - 769 | 16 Lesson 17.4 Read Ch. 17.6 p 769 - 779 Ch. 17 Lecture Video PlayPosit Due |
| 19 ALEKS HW for Ch. 17 Ch. 17 Perusal Discussion /Worksheet | 20 Ch. 17 Notes Ch. 17 Quiz | 21 Module 2 Lesson 18.1 Read Ch. 18.1 - 18.4 p 796 - 808 | 22 Lesson 18.2 Read Ch. 18.5 p 808 - 818 | 23 Lesson 18.3 Read Ch. 18.6 - 18.7 p 818 -825 |
| 26 | 27 | 28 ALEKS HW for Ch. | 29 | 30 |

| | | | | |
|--|---|--|---|--|
| Holiday | Lesson 18.3 contd. Read Ch. 18.8 - 18.10 p 825 - 835 Ch. 18 Lecture Video PlayPosit Due | 18 Ch. 18 Perusall Discussion /Worksheet | Ch. 18 Notes Ch. 18 Quiz | Exam 1 (CH 17, 18) |
| June 2 Module 3 Lesson 19.1 Read Ch. 19.1-19.2 p 849 - 861 | 3 Lesson 19.2 Read Ch. 19.3 p 861 - 874 | 4 Lesson 19.2 contd. Read Ch. 19.3 p 861 - 874 | 5 Lesson 19.3 Read Ch. 19.4 p 874 - 887 | 6 Lesson 19.3 contd. Read Ch. 19.5 p 888 - 892 Ch. 19 Lecture Video PlayPosit Due |
| 9 ALEKS HW Ch. 19 Mod 4/Ch. 19 Perusall Discussion /Worksheet | 10 Ch. 19 Notes Ch. 19 Quiz | 11 Module 4 Lesson 20.1 Read Ch. 20.1 - 20.2 p 907 - 923 | 12 Lesson 20.2 Read Ch. 20.3 p 923 - 931 | 13 Lesson 20.2 contd. Read Ch. 20.4 p 933 - 939 Ch. 20 Lecture Video PlayPosit Due |
| 16 ALEKS HW for Ch. 20 Mod 5 Ch. 20 Perusall Discussion /Worksheet | 17 Ch. 20 Notes Ch. 20 Quiz | 18 Exam 2 (CH 19, 20) | 19 Holiday | 20 Catch up on ALEKS pie (if needed) |
| 23 Summer Break | 24 Summer Break | 25 Summer Break | 26 Summer Break | 27 Summer Break |
| 30 Module 5 Lesson 21.1 | July 1 Lesson 21.1 contd. Read Ch. 21.2 | 2 Lesson 21.2 Read Ch. 21.3 | 3 Lesson 21.2 contd. Read Ch. 21.3 | 4 Lesson 21.3 Read Ch. 21.4 |

| | | | | |
|---|---|---|--|---|
| Read Ch. 21.1 p 951 - 956 | p 956 - 961 | p 961 - 970 | p 961 - 970 | p 970 - 978 |
| 7 Lesson 21.3 cont'd Read Ch. 21.5 - 21.6 p 978 - 984 | 8 Lesson 21.4 Read Ch. 21.7 p 984 - 992 | 9 Lesson 21.4 cont'd Read Ch. 21.7 p 984 - 992 Ch. 21 Lecture Video PlayPosit Due | 10 ALEKS HW for Ch. 21 Mod 6 Ch. 21 Perusall Discussion /Worksheet | 11 Ch. 21 Notes Ch. 21 Quiz |
| 14 Module 6 Lesson 23.1 Read Ch. 23.1 - 23.2 p 1047 - 1055 | 15 Lesson 23.2 Read Ch. 23.3 p 1056 - 1065 | 16 Lesson 23.3 Read Ch. 23.4 p 1065 - 1073 | 17 Lesson 23.3 cont'd. Read Ch. 23.4 p 1065 - 1073 Ch. 23 Lecture Video PlayPosit Due | 18 ALEKS HW for Ch. 23 Mod 7 Ch. 23 Perusall Discussion /Worksheet |
| 21 Ch. 23 Notes Ch. 23 Quiz | 22 Exam 3 (CH 21, 23) | 23 Module 7 Lesson 14.1 Read Ch. 14.1 - 14.2 p 581 - 586 | 24 Lesson 14.2 Read Ch. 14.3 - 14.4 p 586 - 590 | 25 Lesson 14.3 Read Ch. 14.6 - 14.8 p 594 - 611 |
| 28 Lesson 14.4 Read Ch. 14.9 - 14.10 p 611 - 617 | 29 ALEKS HW for Ch. 14 Mod 8 Ch. 14 Perusall Discussion /Worksheet | 30 Ch. 14 Notes Ch. 14 Quiz | 31 Module 8 Lesson 24.1 Read Ch. 24.1 p 1085 - 1095 | August 1 Lesson 24.2 Read Ch. 24.2 - 24.3 p 1095 - 1105 *Withdrawal deadline* |
| 4 Lesson 24.3 Read Ch. 24.4 - | 5 Lesson 24.4 Read Ch. 24.6 - | 6 ALEKS HW for Ch. 24 | 7 Ch. 24 Notes Ch. 24 Quiz | 8 ALEKS Pie is due |

| | | | | |
|-----------------------|--|--|--|--|
| 24.5 p 1105 - 1112 | 24.7 p 1112 - 1121 Ch. 24 Lecture Video PlayPosit Due Mod 9 Ch. 24 Perusall Discussion /Worksheet | | Cumulative Final Exam 11:30 am - 1:30 pm start time | |
|-----------------------|--|--|--|--|

COURSEWORK ESTIMATED TIMES

| Module : Chapter Sections | Canvas Video Lecture Time | Canvas Worked-Out Problems Time | ALEKS Module (HW) Approximate time |
|------------------------------------|------------------------------|------------------------------------|---------------------------------------|
| 1 : Ch 17.1 - 17.6 | 28 min | 31 min | 3 hr |
| 2 : Ch 18.1 - 18.4 | 25 min | 35 min | 3 hr |
| 2 : Ch 18.5 - 18.8, 18.10 | 54 min | 31 min | |
| 3: Ch 19.1 - 19.4 | 36 min | 122 min | 3 hr |
| 4: Ch 20.1 - 20.14 | 30 min | 40 min | 2 hr 45 min |
| 5: Ch 21.1 - 21.3 | 20 min | 62 min | 4 hr |
| 5: Ch 21.4 - 21.7 | 31 min | 63 min | |
| 6: Ch 14.1 - 14.4; 14.6 - 14.10 | | | 2 hr |
| 7: Ch 23.1 - 23.4 | 36 min | 61 min | 3 hr |
| 8: Ch 24.1 - 24.7 | 60 min | | 2 hr 15 min |

SAMPLE GRADING RUBRICS

Worksheet Rubric

| Criteria | Ratings | | | Pts. |
|--------------------------|--|---|---|-----------------|
| Description of Criterion | 2 to > 1.0 pts 100 - 90% Student shows work for all questions in the worksheet. Student work is legible. | 1.0 > 0.0 pts 50 - 90% Student shows complete work for more than half of the questions. | 0 pts 50 - 0% Student shows complete work for less than half of the questions. Student work may be illegible. | 2 pts. |
| | | | | Total Points: 2 |

| Notes Rubric | | | | |
|---------------------------------|---|---|--|-----------------|
| Criteria | Ratings | | | Pts. |
| Quality of Notes | 2.5 to > 1.5 pts Full Marks Includes notes from each lecture video (not including a worked out problem videos). Uses complete sentences. Short responses are not acceptable. | 1.5 to > 0.0 pts Partial credit Includes some guided notes. Includes a couple of incomplete sentences. | 0 pts No Marks Incomplete guided notes and short (or incomplete) responses to required fields. | 2.5 pts |
| Filling out the required fields | 2.5 to > 1.5 pts Full Marks Includes objectives, definitions, notes, self assessment, and a complete summary. | 1.5 to > 0.0 pts Partial credit Partially completes the required fields. | 0 pts No Marks Incomplete filling out of required fields. | 2.5 pts |
| | | | | Total Points: 5 |

DISCLAIMER

This syllabus represents 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.