

CHM2045 GENERAL CHEMISTRY I UFO

SUMMER C 2020, SECTION 10636

INSTRUCTOR INFORMATION

Instructor	Email	Office Location & Hours
Dr. Stacey-Ann Benjamin	Email in Canvas <u>only</u>	Virtual Office Hours TBA

GENERAL INFORMATION

CREDITS/PREREQUISITES

3 credits. Prerequisites: a C or higher in MAC1147 or the equivalent or higher and a passing score on the ALEKS Math placement exam or a C or higher in CHM1025. Check the Course Catalog for math requirements to continue in general chemistry sequence.

MEETING TIMES

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

DESCRIPTION

CHM 2045 is the first semester of the CHM2045/CHM2045L and CHM2046/CHM2046L sequence. Stoichiometry, atomic and molecular structure, the states of matter, reaction rates and equilibria. A minimum grade of C is required to progress to CHM2046. (P)

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 of the information under the *Orientation* section. Many of your questions are answered in the *Settling In* section including: Which types of calculators are approved? What is ProctorU? What is ALEKS? How do you get help? Can assignments be submitted late? What does the formula sheet for an exam look like?

COURSE MATERIALS

TEXTBOOK

ALEKS Prep: We highly recommend completing the ALEKS Prep course, which counts towards your overall course grade, before starting to work on the ALEKS HW for this course. ALEKS Prep is completely different than the ALEKS homework. You should begin and complete the ALEKS Prep as early as possible. Information on how to access the Prep at no additional charge was emailed to your UF email accounts.

Required: ALEKS 360, which includes the ebook: M. Silberberg, “Chemistry: The Molecular nature of Matter and Change with Advanced Topics,” 8th ed., McGraw-Hill, New York 2018. You’ll access the ALEKS HW for the course directly through Canvas; click on Modules, then ALEKS-Science to do so.

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

The ALEKS platform has its own textbook, the ALEKSPEDIA; the textbook for this course, however, is the Silberberg book. We recommend solving end of chapter problems for practice as the course progresses.

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

QUIZZES

Sectional quizzes are delivered in Canvas. These quizzes are not proctored, but are timed, and are subject to the Honor Code. When you're ready to begin, simply click the link. You will have three attempts at each quiz, with the highest score counting for credit. It isn't possible for us to open a quiz for review purposes if you do not open the quiz before the posted due date in Canvas. We encourage you to open each quiz twice for review purposes even if you're satisfied with your score on the first attempt.

The one lowest quiz score is dropped from your final course grade.

Graded quizzes can be completed late, with a late penalty of 25% per day submitted late. Note that if a quiz is submitted even 1 s after the due date/time, the late penalty will apply.

EXAMS

Three progress exams and one cumulative final exam are administered in Canvas. These exams are remotely proctored by ProctorU. In-person examinations are not an option for this 100% online course. It is your responsibility to register with ProctorU and reserve an exam time on the assigned dates during available times:

Exam 1: June 1st; Exam 2: June 19th; Exam 3: July 28th; Final Exam: August 13th

To do so click on the ProctorU tab in Canvas. Reservations (exam start times) are available for each exam beginning at 7 pm, through 8:30 pm only.

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.

If you encounter technical difficulties with ProctorU, contact ProctorU directly. If you have trouble navigating their reservation system, call them for assistance.

EXAM POLICIES

No makeup "do over" progress exams will be given for any reason. If you must be absent for an exam due to a documented and approved academic or UF athletic conflict, bring the documentation to your instructor at least one week prior to the scheduled exam and an early conflict exam will be scheduled for you. If you are absent for an exam due to an unpredicted documented medical reason, you must contact the instructor as soon as possible and have your excuse verified by the Dean of Students office. Your missed exam score will then be replaced by your pro-rated final exam score when calculating your final grade. More information on this policy can be found in the [General Chemistry Exam Absence Policy](#).

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 will help to minimize the impact of a single poor performance, but it will not completely disappear.

ASSIGNMENT POLICY

ALEKS OBJECTIVES

Access the electronic homework and eBook directly from within Canvas by navigating to Modules> ALEKS Science. A significant portion of your grade stems from on-time completion of equally weighted *ALEKS Objectives*. 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 objective 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 in order 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.

The one lowest *ALEKS Objectives* grades are dropped from your overall course grade.

ALEKS objectives cannot be completed late for credit.

ALEKS PIE

A significant portion of your grade stems from completion of your *ALEKS Pie* by the date of your final exam (August 13th @ 11:59 pm EST). The work you do on *ALEKS Objectives* counts towards this goal. You can catch up or work ahead on your pie progress during *Open Pie* periods. We've scheduled *Open Pie* for all students in the course over the Winter break. Whenever you complete an *ALEKS Objective* 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.

ALEKS PREP

ALEKS Prep is mandatory for all students who are placed into CHM2045. The Prep will walk students through the chemistry needed for success in CHM2045 and will assign students work to fill knowledge gaps. The ISBN for the 12-week ALEKS Prep course is 9781259207921. The Prep is performed using ALEKS Chemistry. Your login information for ALEKS Chemistry is not the same as for ALEKS Math Placement - if you haven't used ALEKS Chemistry before, you will need to set up a new account. If you used ALEKS Chemistry in CHM1025, you can use the same login information. Note: this is not your gatorlink login, this is your ALEKS Chemistry login information. **You still need to complete ALEKS Prep even if you've completed CHM1025 using ALEKS.**

2% of the final course grade will be based on the ALEKS Prep Course for Summer 2020, **due 05/22/2020**. ALEKS Prep % completion correlates to grade earned as follows:

% ALEKS complete	0 - 69%	70 - 79 %	80 - 89%	90 - 98%	99 - 100%
% grade earned	0%	0.5%	1.0%	1.5%	2.0%

WORKSHEETS

A portion of your grade stems from completion and submission of worksheets. You must *show your work* to earn full credit. Your instructor will review these and make comments on your work. Worksheets must be submitted to the assignment prior to the deadline to be considered for credit.

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

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

Worksheets can be completed late, with a late penalty of 25% per day submitted late. Note that if a worksheet is submitted even 1 s after the due date/time, the late penalty will apply.

STUDY ROOMS

The student is expected to contribute to threaded discussions in topic-specific Study Rooms according to the advertised timeline in Canvas. Discussions cannot be submitted for credit after the deadline. There are no exceptions. Post early and check your post/response. Emailed submissions are not considered for credit.

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

The one lowest Study Room discussion grade is dropped from your overall course grade.

Study room participation can be completed late, with a late penalty of 25% per day submitted late. Note that if a participation (original post and/or follow up posts) is submitted even 1 s after the due date/time, the late penalty will apply.

PRACTICE ACTIVITIES

Practice activities (Quizlet activities, practice quizzes, simulations, etc.) are provided in Canvas. Practice activities do not count for credit.

CHECK-IN WITH INSTRUCTOR

The student is expected to check in with the instructor at least every two weeks. These check-ins are intended to provide one on one communication with your instructor to ensure that you are keeping up with the course material, to address course related concerns, and to discuss best study practices. You will make an appointment to meet with your instructor every two weeks via zoom conference and full credit will be awarded if a minimum of 6 of those meetings take place.

EXTENSIONS

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://www.dso.ufl.edu/care/courtesy-letters/>

Exam dates are firm, and all assignments must be completed by the last day of term.

GRADING

GRADE POLICY

Should a student wish to dispute any grade received in this class, the dispute must be in writing and be submitted to the instructor within 96 h of receiving the grade, and within 24 h of the Final Exam.

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.

Assignments weights are as follows:

Assignment Group	Weight %
ALEKS Prep	2%
ALEKS Objectives	6%
ALEKS Pie Progress	8%
Progress Exams (3 @ 15% each)	45%
Cumulative Final Exam	20%
Worksheets	8%
Quizzes	6%
Study Rooms	3%
Check-in with Instructor	2%

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

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: <http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php>.”

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.

FEEDBACK

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. <http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf>

GETTING HELP

For issues with or technical difficulties with Canvas, contact the UF Help Desk: <https://lss.at.ufl.edu/help.shtml> (352)-392-HELP.

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.

GENERAL EDUCATION

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

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 course, 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 CHM1025.

SPECIFIC GOALS OF CHM2045

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 on discussion assignments, written assignments, and in discussion with your instructor/TA. We will also demonstrate how these topics can be applied to the scientific method and how observation and experimentation leads us to the development of scientific theories. 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.

COURSE LEARNING OUTCOMES

A complete list of student learning outcomes is posted in Canvas.

TENTATIVE WEEKLY SCHEDULE

Note: this is designed to replicate F2F class

Monday	Tuesday	Wednesday	Thursday	Friday
May 11 Orientation	12 Module 1 (review) Orientation Quiz	13 Module 2 (review) Module 1 Study Room & Worksheet	14 Ch. 1 Quiz Module 2 Study Room & Worksheet	15 Ch. 2 Quiz Work on ALEKS Prep assignment
18 Module 3 Lesson 3.1 Finish ALEKS Prep by this date so can move on in ALEKS HW	19 Lesson 3.2	20 Lesson 3.3	21 Module 3/Ch. 3 SR & WS ALEKS HW Prerequisite Review (make sure you're done the Prep first)	22 ALEKS Prep is due Ch. 3 Quiz
25 Holiday	26 Module 4 Lesson 4.1	27 Lesson 4.2 Lesson 4.3	28 Mod 4/Ch. 4 SR & WS	29 ALEKS HW Ch. 4 Ch. 4 Quiz
June 1 Exam 1 (CH 1 - 4)	2 Module 5 Lesson 5.1	3 Lesson 5.2 Lesson 5.3	4 Module 5/ Ch. 5 SR & WS	5 ALEKS HW Ch. 5 Ch. 5 Quiz
8 Module 6 Lesson 6.1 Lesson 6.2	9 Lesson 6.3	10 Mod 6/Ch. 6 SR & WS	11 ALEKS HW for Ch. 6 Ch. 6 quiz	12 Module 7 (CH 16) Lesson 7.1
15 Lesson 7.2	16 Lesson 7.3	17 Mod 7/Ch. 16 SR & WS	18 ALEKS HW for Ch. 16 Ch. 16 Quiz	19 Exam 2 (CH 5, 6, 16)

22 Summer Break	23 Summer Break	24 Summer Break	25 Summer Break	26 Summer Break
29 Summer Break	30 Summer Break	July 1 Summer Break	2 Summer Break	3 Summer Break
6 Module 8 (CH 7) Lesson 8 (Ch. 7)	7 Mod 8/Ch. 7 SR/WS	8 ALEKS HW for Ch. 7 Ch. 7 quiz	9 Module 9 (CH 8) Lesson 9.1 (Ch. 8)	10 Lesson 9.2 (Ch. 8)
13 Mod 9/Ch. 8 SR/WS ALEKS HW for Ch. 8 Ch.8 Quiz	14 Module 10 (CH 9) Lesson 10.1 (Ch.9)	15 Lesson 10.2 (Ch.9) Lesson 10.3 (Ch.9)	16 Mod 10/Ch. 9 SR/WS	17 ALEKS HW Ch.9 Ch. 9 Quiz
20 Module 11 (CH 10) Lesson 11.1 (Ch.10) Lesson 11.2 (Ch.10)	21 Mod 11/Ch.10 SR/WS	22 ALEKS HW Ch. 10 Ch. 10 Quiz	23 Module 12 (CH 11) Lesson 12.1 (Ch.11) Lesson 12.2 (Ch.11)	24 Mod 12/Ch.11 SR/WS
27 ALEKS HW Ch.11 Ch.11 Quiz	28 Exam 3	29 Module 13 (CH 12) Lesson 13.1 (Ch.12)	30 Lesson 13.2 (Ch.12) Lesson 13.3 (Ch.12)	31 Lesson 13.4 (Ch.12)
August 3 Mod 13/Ch. 12 SR/WS	4 ALEKS HW Ch.12 Ch. 12 quiz	5 Module 14 (CH 14) Lesson 14.1 (Ch.13)	6 Lesson 14.2 (Ch. 13) Lesson 14.3 (Ch.13)	7 Lesson 14.4 (Ch.13)
10 Mod 14/ Ch. 13 SR/WS	11 ALEKS HW Ch. 13 Ch. 13 Quiz	12 Review for Final Exam	13 Cumulative Final Exam	14 ALEKS Pie is due

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.