

CHM1025 INTRODUCTORY CHEMISTRY

FALL 2019 SECTION 05A3

INSTRUCTOR INFORMATION

| Instructor | Email | Phone | Office Location & Hours |
|------------|---|-------------------------------|---|
| Mrs. Veige | Email in Canvas only (emails receive faster response than phone) | 392-0518 (email preferred) | See the Syllabus page in Canvas for office hours; Office is JHH 103 |

TEACHING ASSISTANT

Office hours and locations will be posted on the Syllabus page in Canvas. You can also seek help from any TA holding office hours in the Chemistry Learning Center (CLC), JHH 105. [Broward Teaching Center](#) offers free walk-in help at scheduled times for CHM1025 students and may hold exam review sessions. See their website for details. The Office of Academic Support also offers [free tutoring](#).

GENERAL INFORMATION

COREQUISITES

MAC1147 or the equivalent is a published co-requisite. Refer to the Course Catalog for math requirements to continue in general chemistry sequence. The math requirement of a C or higher in MAC1147 or the equivalent or higher is strictly enforced for CHM2045. A C or higher in CHM1025 is also required for progression to CHM2045, no matter the ALEKS math placement score.

MEETING TIMES

This is a 100% online course.

DESCRIPTION

CHM 1025, a two-credit course, is offered for students who wish to strengthen their understanding of basic concepts of atomic structure and stoichiometry before beginning the general chemistry sequence (CHM 2045/2045L, CHM 2046/2046L). This introductory readiness course in general chemistry is for those with weak yet satisfactory backgrounds in high school chemistry and algebra. (P)

FIRST DAYS

Log into Canvas and access the course. You should check daily for new *Announcements* and/or emails containing important information and reminders. Click on the *Syllabus* tab. A study schedule is provided on this page that will lead you through textbook readings to stay on track for quizzes and exams. Click on *Modules* and read all of the information under the *Settling In* 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

A significant portion of your grade stems from electronic homework (ALEKS) associated with an ebook (*Introduction to Chemistry*, Bauer, Birk and Marks, 5th ed., McGraw-Hill). ALEKS also has its own “textbook,” the ALEKSPEDIA; the textbook for this course, however, is the Bauer text.

You can purchase one of two access codes for ALEKS. 1: The first includes ALEKS homework and the ebook of Bauer, Birk & Marks. 2: The second includes only the ALEKS homework for the course and the ALEKSPEDIA reference material. If you’re able to visit campus and refer to the textbook we have on reserve at Marston Science Library, the second option is more affordable.

This course is participating in UF All Access. Beginning the first day of the semester (not before that time) 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 (at a slightly higher price). The opt-in code is the comprehensive package (ALEKS homework and the ebook of Bauer, Birk & Marks).

To opt in, navigate to: <https://www.bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED>. 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 Modules, then select the link to *ALEKS - Science* to join the ALEKS course. Provide the access code when prompted to do so. If you have any questions about the authorization process or refunds contact allaccess@bsd.ufl.edu.

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 ALEKS. A paper version is on reserve at the Marston Science Library for reference purposes.

See the ALEKS page in Canvas (Modules>ALEKS, under the Settling In section) for a walkthrough video for instructions on viewing the textbook and general navigation tips within ALEKS.

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.

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 Q&A Discussion board in Canvas. The instructor/TA response time is 24 h during the work week (expect to wait until Monday for questions posted on a Friday).

I encourage you to post questions related to ALEKS homework or end of chapter questions you're working on to the Q&A. 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/TA/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

SYLLABUS QUIZZES/SURVEYS/INTRO DISCUSSION

You can submit these assignments late, with a 20% penalty per day submitted late. Make sure to open and submit the quizzes for all attempts prior to the due date to avoid the late penalty.

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 two attempts at each quiz, with the highest score counting for credit. See the Quizzes page in the Settling In section for details on what is covered on each quiz.

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.

Graded quizzes can be completed late, with a late penalty of 20% per day submitted late, with the last possible date a quiz can be completed for any credit being the last day of term, 11:59 pm Dec. 4th. Note that if a quiz is submitted even 1 s after the due date/time, the late penalty will apply. Ensure you open and submit the quiz for both of your attempts prior to the due date to avoid the late penalty.

The two lowest quiz scores are dropped from your final course grade.

EXAMS

Two progress exams and one cumulative final exam are administered in Canvas. These exams are remotely proctored by ProctorU. It is your responsibility to register with ProctorU and reserve an exam time on the available dates (Exam 1: Oct. 14th-24th; Exam 2: Nov. 1st-14th; Final Exam: Dec. 3rd-9th). To do so click on the ProctorU tab in Canvas. For each exam the last available reservation time (start time) with ProctorU is 7 pm EST on the final day for that exam. *You should select a time at least 45 min before 7 pm EST,*

however; 7 pm is the last time ProctorU is able to start the exam for you, and it takes some time to set up with them.

Ensure that you are reserving for the correct course - there are examinations for similarly numbered courses in their system that may have different dates available.

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.

EXAMINATION ROOMS ON CAMPUS

Library West has proctoring booths available for reservation using their regular room reservation system. When you pick up the key at the circulation desk you will be asked to show your ProctorU testing confirmation. The rooms aren't soundproofed. Additional information is provided at <http://guides.uflib.ufl.edu/InfoCommons/proctoru>.

QUIZ/EXAM QUESTION DISPUTES

If you believe you have found an error on a quiz/exam or would like to dispute a question, the deadline for doing so is within 72 h of a quiz/exam. The deadline for grade disputes with the final exam is 11:59 pm Dec. 10.

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.

Due to the way ALEKS Objectives are set up, with students working on prescribed topics during set times, it can be problematic for the student to extend due dates. If you have a legitimate reason for an extension on an ALEKS assignment (see the University Attendance Policy: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>), reach out to your instructor (Mrs. Veige) via email through Canvas. Up to two missed objectives for approved reasons will be handled by marking them with "EX" in the Canvas gradebook. This will weight your other graded objective scores more heavily in your final course grade. If more than two are missed, due date extensions will be made for the 3rd and subsequent missed assignments

(this should be rare). Even though the individual assignment grades may be excused, you will still need to complete the topics contained in the assignments to earn full credit on your ALEKS Pie. You can do this whenever you are in Open Pie mode.

The two lowest ALEKS Objectives grades are 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 Objectives counts towards this goal. You can catch up or work ahead on your pie progress during Open Pie periods. There are regularly scheduled Open Pie times for all students in the course. 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.

Additional information regarding ALEKS is provided in the *Settling In* section in Canvas. Contact ALEKS support for tech help with ALEKS or for grading disputes. Their support staff is very responsive.

You can work on your ALEKS Pie Progress for credit until 11:59 pm the last day of term, Dec. 4th.

WORKSHEETS

Worksheet assignments complement the material covered in ALEKS, the text, and the end of chapter problems in the text. Each assignment must be submitted properly in Canvas as a .pdf document or it will not be considered for credit. Worksheets can be submitted late, with a late penalty of 20% per day submitted late, with the last possible date a worksheet can be submitted for any credit being the last day of term, 11:59 pm Dec. 4th. Note that if a worksheet is submitted even 1 s after the due date/time, the late penalty will apply. If you attempt to submit any assignment very close to the due date/time it may not be processed prior to the due date, so take heed.

For technical help submitting an assignment contact the UF Help Desk or see the Canvas guides.

Detailed grading rubrics for each assignment are posted on the assignment pages in Canvas.

The three lowest worksheet grades are dropped from your overall course grade.

Worksheets may be graded beginning the morning after their due date. Once a submission is graded it cannot be resubmitted/revised for regrading, so please verify you have submitted the document you'd like to be graded. You should carefully compare the solutions to your answers.

Consider the grading/late policy carefully. If you submit an incomplete worksheet on time, you will earn at a maximum 50% of the worksheet grade. If you take an extra day to complete the worksheet in its entirety, you can earn up to 80% (100% - 20% for a day late submitting).

ATTENDANCE, EXTENSION REQUESTS

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/>

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 not be rare, as CHM1025 proctored exams are available for scheduling over a number of days. You should plan accordingly. 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.

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 72 h of receiving the grade, or within 24 h of the Final Exam.

There is no extra credit available for this course beyond the bonus points available for discussion assignments, and 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 Objectives | 10% |
| ALEKS Pie Progress | 10% |
| Quizzes | 15% |
| Progress Exams (2 @ 17.5% each) | 35% |
| Cumulative Final Exam | 25% |
| Worksheets | 4% |
| Syllabus Quiz and Surveys | 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 |

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 CHM1025

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.


















WEEKLY SCHEDULE

Each of you is going to be working at a slightly different pace depending on your retained knowledge from CHM2045 and prior. The due dates in the schedule below are the last possible dates you can complete the assignments; try to stay well ahead of the posted due dates.

Exam Dates: Exam 1: Oct. 14-24; Exam 2: Nov. 1-14; Final Exam: Dec. 3-9.

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|-----------------|---|----------------|
| Tue Oct 1, 2019 |  Quiz about Quiz/Exam Policies | due by 11:59pm |
| |  Syllabus Quiz | due by 11:59pm |
| Wed Oct 2, 2019 |  ALEKS Prerequisite Review | due by 11:59pm |

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| Thu Oct 3, 2019 |  ALEKS Ch. 1 | due by 11:59pm |
| |  Quiz 1: Ch. 1 | due by 11:59pm |
| |  Quizlet: SI Units and Metric Prefixes | due by 11:59pm |
| |  Worksheet: Sig Figs & Scientific Notation | due by 11:59pm |
| Mon Oct 7, 2019 |  ALEKS Ch. 2 | due by 11:59pm |
| |  Quizlet: Elements/Symbols | due by 11:59pm |
| |  Worksheet: Subatomic Particles | due by 11:59pm |
| Thu Oct 10, 2019 |  ALEKS Ch. 3 | due by 11:59pm |
| |  Quiz 2: Ch. 2 & 3 | due by 11:59pm |
| |  Quizlet: Molecular Compounds | due by 11:59pm |
| |  Quizlet: Naming Acids | due by 11:59pm |
| |  Quizlet: Naming Ionic Compounds | due by 11:59pm |
| |  Quizlet: Polyatomic Ions | due by 11:59pm |
| Tue Oct 15, 2019 |  Worksheet: Ch. 3 | due by 11:59pm |
| |  Worksheet: Particles and Moles | due by 11:59pm |
| Fri Oct 18, 2019 |  ALEKS Ch. 4 | due by 11:59pm |
| |  Quiz 3: Ch. 4 | due by 11:59pm |
| Mon Oct 21, 2019 |  Worksheet: Net Ionic Equations | due by 11:59pm |
| Thu Oct 24, 2019 |  Exam 1: Ch. 1-4 | due by 11:59pm |
| |  Practice Exam 1 (not for credit) | due by 11:59pm |
| Fri Oct 25, 2019 |  ALEKS Ch. 5 | due by 11:59pm |
| |  Quiz 4: Ch. 5 | due by 11:59pm |
| Mon Oct 28, 2019 |  Worksheet: Limiting Reactant & Percent Yield | due by 11:59pm |
| Fri Nov 1, 2019 |  ALEKS Ch. 6 | due by 11:59pm |
| |  Quiz 5: Ch. 6 | due by 11:59pm |

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| Fri Nov 8, 2019 |  ALEKS Ch. 7 | due by 11:59pm |
| |  Quiz 6: Ch. 7 | due by 11:59pm |
| |  Worksheet: Lewis Structures and Geometry | due by 11:59pm |
| Thu Nov 14, 2019 |  Exam 2: Ch. 5 - 7 (may overlap with previous chapters) | due by 11:59pm |
| |  Practice Exam 2 (not for credit) | due by 11:59pm |
| Fri Nov 15, 2019 |  ALEKS Ch. 8 | due by 11:59pm |
| |  Quiz 7: Ch. 8 | due by 11:59pm |
| |  Worksheet: Solutions | due by 11:59pm |
| Wed Nov 20, 2019 |  ALEKS Ch. 11 | due by 11:59pm |
| Mon Nov 25, 2019 |  ALEKS Ch. 13 | due by 11:59pm |
| Tue Nov 26, 2019 |  End of Semester Survey | due by 11:59pm |
| |  Worksheet: Acids, Bases & Redox | due by 11:59pm |
| Mon Dec 2, 2019 |  ALEKS Ch. 14 | due by 11:59pm |
| |  Quiz 8: Ch. 11, 13 & 14 | due by 11:59pm |
| Wed Dec 4, 2019 |  Pie Progress | due by 11:59pm |
| Mon Dec 9, 2019 |  Exam 3 (Cumulative) | due by 11:59pm |
| |  Practice Final Exam (not for credit) | due by 11:59pm |

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.