

INTRODUCTORY CHEMISTRY (ONLINE)

CHM 1025

2 CREDITS

FALL, 2013

ONLINE COURSE

INSTRUCTOR: Melanie Veige
CLB C130B
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(352) 392-0518

OFFICE HOURS: WF 7th period (2-3 pm) ONLINE; navigate to
<http://ufat.adobeconnect.com/veigechemistry> to participate via chat,
webcam and microphone.

COURSE TA: TBA; office hours in the Chemistry Learning Center (Keene-Flint Hall, 257-258); e-mail to "Teaching Assistant" role in e-Learning

COURSE WEBSITE: <http://lss.at.ufl.edu>

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). A chemistry readiness assessment (ChRA) is offered online on ISIS. The score achieved determines whether CHM 1025 or CHM 2045 is the appropriate first course in chemistry. This introductory readiness course in general chemistry is for those with weak yet satisfactory backgrounds in high school chemistry and algebra. (P)

A grade of "C" or better is required for progression to CHM 2045.

COREREQUISITES: MAC 1147 or the equivalent.

COURSE COMMUNICATIONS: General course questions should be posted to the discussion board in e-Learning. The course TA or instructor will respond to Discussion posts within 24 h during the work week (allow 48 h over the weekend). Private or grade-related questions should be sent to "Instructor Role" via the Mail function in e-Learning.

REQUIRED TEXT AND MATERIALS: MasteringChemistry access code for *Basic Chemistry*, Timberlake & Timberlake, 4th ed., Pearson. Access to an electronic copy of the textbook is included with purchase of the access code, ISBN 9781269205986. Purchase at the UF bookstore or at www.ufchemistry.com.

ADDITIONAL REQUIREMENTS: A computer with webcam, microphone, and speakers is required.

PURPOSE OF COURSE: CHM 1025 is designed to help students master the basic concepts of chemistry and acquire the skills necessary for success in the mainstream general chemistry sequence.

GENERAL EDUCATION: CHM 1025, Introductory Chemistry, is a General Education physical science (P) course. The topics covered include classification of matter and nomenclature. The student will apply the topics covered, including classification of matter, to real-world items. Is a bowl of chicken noodle soup a homogeneous or heterogeneous mixture? How do thermochemical principles explain formation of condensate on the exterior of a glass of iced water?

COURSE AND GENERAL EDUCATION STUDENT LEARNING OBJECTIVES: The student will:

- Demonstrate an understanding of basic chemical concepts, including classification of matter.
- Gain an understanding of the vocabulary of chemistry, which permeates society on food and product labels, and in discussion of current events (pollution and climate change, sustainable energy).
- Demonstrate the ability to apply chemistry-centered mathematical concepts effectively to real-world solutions; for example, calculating Calories in an item of food.
- Distill and analyze information from multiple perspectives, including that presented in tabular or graphic format. The student will apply logical reasoning skills in this task.
- Communicate scientific findings clearly and effectively using oral, written or graphic forms. The student will participate in threaded discussion forums, within small cohorts, based on broader themes related to each module.

INSTRUCTIONAL METHODS: The course material is delivered via recorded lectures by your instructor, and by key readings in the text.

COURSE POLICIES:

QUIZ/EXAM POLICY: The midterm and cumulative final exam will be administered via e-Learning using Assessments. These exams are remotely proctored by ProctorU. It is your responsibility to register with ProctorU and reserve an exam time within the window specified in the Due Dates schedule at least 5 days prior to each exam date. To register go to <http://go.proctoru.com>. If you fail to make a reservation in advance, you will incur a late fee, and may have difficulty obtaining a desirable exam time. Same-day appointments are not permitted. Failure to reserve a time slot in advance is not an acceptable reason for a make-up. If you have technical difficulties, call ProctorU at 205-870-8122.

End of chapter quizzes are delivered via e-Learning using Assessments. These quizzes are not proctored, but are timed. The student may take the quizzes at any time within a 24 h window.

MAKE-UP POLICY: A conflict exam/quiz will be offered to those students with valid conflicts (<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>). It is your responsibility to identify yourself as requiring such accommodation at least one week prior to the exam. If, during the exam, you experience technical difficulties with ProctorU, the correct course of action is to contact ProctorU at 205-870-8122. If you experience technical difficulties with e-Learning, contact the Help Desk immediately at 392-HELP. A ticket number will be created to log the time and nature of the problem. You must contact your instructor via e-mail within 24 h of the technical difficulty to be considered for a make-up. The ticket number will be required by your instructor should a make-up exam be requested.

ASSIGNMENT POLICY:

1. MASTERINGCHEMISTRY: To register for MasteringChemistry, the student will require a valid e-mail address, an access code (purchase at the bookstore or online at www.ufchemistry.com), the zip code for your school (32611) and the course ID: MCVEIGE97489. The MasteringChemistry electronic homework component of the course consists of 28 assignments; please see the Handbook or Due Dates document for a detailed schedule. Refer to your instructor's assignment grading policy at www.MasteringChemistry for information regarding penalties, additional attempts and late assignment completion. Generally, the student is given 10 chances to answer correctly with a small deduction for an incorrect response; multiple-choice questions are marked as incorrect after one incorrect response. Assignments may be submitted late with a penalty of 10% per day late. The grading policy can be viewed in the course page

at www.MasteringChemistry.com. All assignments must be submitted by Dec. 4th at 11:59 pm, at which time access to the course page in www.MasteringChemistry.com will cease.

2. DISCUSSIONS: The student is expected to contribute to the threaded discussions (Discussion Board tab) according to the advertised timeline. Original posts and comments on other students' posts are required. See the Discussion Board grading rubric for details.

3. WRITTEN ASSIGNMENTS AND PEER REVIEW: The student will participate in "Calibrated Peer Review (CPR)" in which he/she composes a written document, completes a calibration process in which he/she assesses the quality of instructor-provided documents, reviews classmates' documents and performs a self-review. Each step of the process is graded; the student's skill as a reviewer affects the weight of his/her grade of his/her peers. Refer to the Handbook section in Sakai for further details, and to the Due Dates documents for relevant deadlines.

COURSE TECHNOLOGY: The student may require Adobe Acrobat Reader, Adobe Flash Player, Microsoft Silverlight and other software; there are free tutorials on many software applications you may encounter on Lynda.com. All UF students are expected to have reliable access to a computer; suggested configurations may be found here: <https://training.helpdesk.ufl.edu/computing.shtml>. ProctorU has specific hardware/software requirements: <http://www.proctoru.com/tech.php>. Check the [MasteringChemistry requirements](#) to ensure you have the necessary plugins to complete the assignments.

UF 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 the 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. You may request a .pdf version of your accommodation letter from the Dean of Students Office to send electronically to your instructor.

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>.”

NETIQUETTE: COMMUNICATION COURTESY: 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>

FEEDBACK: Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at

<https://evaluations.ufl.edu>.

GETTING HELP:

For issues with technical difficulties for E-learning in Sakai, please contact the UF Help Desk at:

- Learning-support@ufl.edu
- (352) 392-HELP - select option 2
- <https://lss.at.ufl.edu/help.shtml>

**** Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from LSS when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up/extension.**

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
- Library Help Desk support

Should you have any complaints with your experience in this course please visit <http://www.distance.ufl.edu/student-complaints> to submit a complaint.

TUTORING/CHEMISTRY HELP:

The Chemistry Learning Center (CLC) is located in Keene-Flint Hall rooms 257 and 258. Chemistry graduate students offer free help, usually weekdays between periods 2-9.

The [UF Teaching Center](#) has free walk-in help, or you can schedule an appointment. You can also watch interactive practice CHM 1025 exams.

GRADING POLICIES:

Should a student wish to dispute any grade received in this class (other than simple addition errors), the dispute must be in writing and be submitted to the instructor within one week of receiving the grade.

GRADE DISTRIBUTION:

1. E-Homework (MasteringChemistry) (15%)
2. Quizzes (25%)
Time-limited end-of-chapter quizzes will be delivered in a multiple-choice and fill-in-the-blank format through Assessments in e-Learning. Each quiz is weighted equally. The lowest quiz grade is dropped.
3. Proctored (online) Midterm (25%) and Final (25%) Exam

The midterm and final exam (timed, multiple-choice and fill-in-the-blank format) will be delivered through Assessments in e-Learning and will be proctored remotely by ProctorU.

4. Class Participation (5%)

The student will regularly (approximately 2x per week) post comments/insight on assigned topics to the Discussion Board in e-Learning. The posts will be visible to each student's group within e-Learning (approximately 30 students per group).

5. Written Assignments (CPR) (5%)

5. Syllabus Quiz and Surveys

The Syllabus Quiz and Surveys #1-3 are each worth 0.5% extra credit for a total of 2% possible extra credit.

GRADING SCALE:

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
87%	84	80	77	74	70	66	64	60	56	54	<54

For more information:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx#hgrades>

<http://www.isis.ufl.edu/minusgrades.html>

COURSE SCHEDULE:

MIDTERM AND FINAL EXAM: Reserve your exam times with ProctorU for the dates shown in red on the Suggested Study Schedule.

SUGGESTED STUDY SCHEDULE:

		EXAM		QUIZ		
SUN.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT.
Aug. 18	19	20	21	22 Chapter 1: The Scientific Method and Key Math Skills	23	24
25	26	27 2.1-2.4 Units; Scientific Notation and Significant Figures	28	29 2.5-2.8 Unit Conversion	30	31
Sept. 1	2	3 3.1-3.2 Classification of Matter; States and Properties	4	5 3.3-3.6 Temperature, Energy/Nutrition and Specific Heat	6	7
8	9	10 4.1-4.3 Atomic	11	12 4.4-4.5 Subatomic	13	14

		Theory and the Periodic Table		Particles		
15	16	17 5.3-5.5 Electron Configuration	18	19 6.1-6.4 Ionic Compounds	20	21
22	23	24 6.5- 6.7 Molecular Compounds and Alkanes	25	26 14.1-3 Naming Acids; Strong Acids	27	28
29	30	Oct. 1 12.1-12.2 Solutions & Electrolytes	2	3 8.1-8.2 Balanced Equations	4	5
6	7	8 8.3-8.4 Reaction Types and Functional Groups	9	10 15.1-15.2 Redox; Activity Series from 15.4	11	12
13	14	15 12.3 Solubility Rules & Double Replacement Reactions	16	17 14.7 Acid/Base Reactions	18	19
20	21	22 7.1-7.3 Moles and Molar Mass	23	24 7.4-7.5 Empirical and Molecular Formulas	25	26
27	28	29 9.1-9.2 Mole/Mass Relationships	30	31 9.3-9.4 Limiting Reactant and % Yield	Nov. 1	2
3	4	5 9.5 Energy in Chemical Reactions	6	7 12.4-12.5 Concentration and Dilution	8	9
10	11	12 12.5,14.8 Solution Stoichiometry	13	14 10.1 Lewis Structures	15	16
17	18	19 10.2 Molecular Geometry	20	21 10.3 Electro-negativity and Polarity	22	23
24	25	26 REVIEW	27	28	29	30
Dec. 1	2	3	4	5	6	7
8	9	10	11	12	13	14

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.