

# CONSUMER CHEMISTRY

CHM 1083

3 CREDITS

FALL, 2013

“In the fields of observation, chance favors only the prepared mind.” (Louis Pasteur)

ONLINE CLASS

**INSTRUCTOR:** Melanie Veige

CLB C130B

[melveige@chem.ufl.edu](mailto:melveige@chem.ufl.edu) or “Instructor Role” in e-Learning

(352) 392-0518

**OFFICE HOURS:** MTR 7<sup>th</sup> period online. Navigate to

<http://ufat.adobeconnect.com/veigechemistry> to participate via chat, webcam and microphone.

**COURSE TA:** TBA; office hours TBA in the Chemistry Learning Center (Keene-Flint Hall, 257-258)

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

**COURSE DESCRIPTION:** CHM 1083 is a terminal general education course (Classification P) for non-science students that presents the basic concepts of chemistry and examines the role of chemistry in both consumer products and the environment. This course meets pre-professional requirements in certain areas of the College of Agricultural and Life Sciences. (P)

**PREREQUISITE KNOWLEDGE AND SKILLS:** High school algebra is necessary.

**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:** You are not required to purchase one. An electronic version of the textbook (*Chemistry in Context*, 7<sup>th</sup> ed., American Chemical Society (ISBN 0077334434 / 9780077334437)) is included with your course fees. You can access the course text and

homework activities immediately; click on “McGraw-Hill Campus” from the Course Materials page in e-Learning to get started. If you have any questions about this process, please e-mail your instructor.

**ADDITIONAL REQUIREMENTS:** A computer with webcam, microphone, and speakers is required. You will also need a nonprogrammable calculator.

**PURPOSE OF COURSE:** By the end of this course it is expected that students will have a fundamental understanding of the chemistry of the major environmental threats to air and water, including ozone depletion, smog, global climate change, and others.

**GENERAL EDUCATION:** CHM 1083, Consumer Chemistry, is a General Education physical science (P) course. The topics covered include not only classification of matter and nomenclature, but also broader chemical concepts germane to current issues facing society and the environment. We will discuss such varied topics as carbon footprint, personal radiation dose, and nutrition, and relate them to a discussion of classification of matter (carbon is an element and is a nonmetal), of electromagnetic radiation (radio waves, ultraviolet waves and the UV index), and of biologically important molecules (what is a functional group).

**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, in regards to pollution and climate change, and in the discussion of 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, and using half-life to assess potential dangers of radioactive isotopes.
- Communicate scientific findings clearly and effectively using oral, written or graphic forms. The student will prepare a report based on a laboratory exercise consisting of a graph and written analysis. In this task, the student will also formulate and test a hypothesis, and apply critical thinking in an experimental simulation and evaluate its outcome.
- 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.

- Describe the chemistry of the major environmental threats to air and water, including ozone depletion, smog, global climate change, groundwater pollution, and energy production.

**INSTRUCTIONAL METHODS:** The course material is delivered via recorded lectures by your instructor, through other instructional videos (PBS, NASA, etc.), and by key readings in the text.

## COURSE POLICIES:

**QUIZ/EXAM POLICY:** There are timed end-of-module quizzes administered via e-Learning. The *lowest two* such quizzes are dropped (note, the midterm and final exam scores are not eligible to be dropped). The midterm and cumulative final exam will be administered via e-Learning using Assessments with remote proctoring 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.

**MAKE-UP POLICY:** A conflict exam 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. MCGRAW-HILL CAMPUS:** There are two electronic homework components accessed via McGraw-Hill Campus: electronic homework and LearnSmart activities. The homework policies are: the student may attempt each question 10 times without penalty. Assignments may be submitted late, with a penalty of 10% per day late. All

assignment scores will be final at 11:59 pm on December 4<sup>th</sup>, the last day of fall term. The lowest two homework and LearnSmart module grades are dropped.

**2. END-OF-MODULE QUIZZES:** There are 8 such quizzes, each of which is available under the Assessments tool in e-Learning for 24 h. The lowest two quiz scores are dropped.

**3. WRITTEN ASSIGNMENTS/PEER REVIEW:** Two written assignments will be submitted via Calibrated Peer Review (CPR) Software. You will be graded in four parts: assignment submission, calibration as a reviewer, grade assigned by calibrated peer reviews, and a self-assessment. See the supplemental information under the Handbook section in e-Learning for more information.

**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>.

## 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.

**UNIVERSITY POLICY ON ACADEMIC MISCONDUCT:** Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at <http://www.dso.ufl.edu/students.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>

## GETTING HELP:

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

- [Learning-support@ufl.edu](mailto: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.

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.

## 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. McGraw-Hill Campus (Homework and LearnSmart activities) (20%)
2. Online Quizzes (9%)  
Time-limited end-of-chapter quizzes will be delivered in a multiple-choice and fill-in-the-blank format through Assessments in e-Learning.
3. Proctored (online) Midterm (17.5%) and Final (35%) 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 (4%)

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 5 students per group).

5. Written Assignments (10%)
6. Blog (3%)

The student will maintain a photo blog board consisting of at least 30 pins of recent news or other articles on course topics (3 separate *posts* for each of 10 topics), accompanied by a comment as to the relevance of the item to the topic in question.

7. Group Map (1%)
8. Syllabus Quiz (0.5%)
9. Extra Credit Surveys (3 @ 0.5% extra credit each)

#### GRADING SCALE:

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
87%	84	80	77	74	70	67	64	60	56	54	<54

For more information:


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

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

#### COURSE SCHEDULE:

**MIDTERM AND FINAL EXAM:** Reserve your exam time with ProctorU.

#### SUGGESTED STUDY SCHEDULE:

 EXAM  QUIZ

SUN.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT.
Aug. 18	19	20	21 Module 1	22	23	24
25	26	27	28	29	30 Module 2	31
Sept. 1	2	3	4	5	6	7
8	9	10 Module 3	11	12	13	14
15	16	17	18	19 Module 4	20	21
22	23	24	25	26	27	28
29	30	Oct. 1	2	3	4	5

	Module 5					
6	7	8	9 Module 6	10	11	12
13	14	15	16	17	18 Module 7	19
20	21	22	23	24	25	26
27	28	29 Module 8	30	31	Nov. 1	2
3	4	5	6	7 Module 9	8	9
10	11	12	13	14	15	16
17	18 Module 10	19	20	21	22	23
24	25	26	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.