

# CONSUMER CHEMISTRY

CHM 1083

3 CREDITS

SUMMER B, 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:** MWF 5<sup>th</sup> period

**COURSE TA:** TBA

**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:** ConnectPlus Chemistry 1 Semester Online Access for Chemistry in Context, 7<sup>th</sup> ed., American Chemical Society (ISBN 0077334434 / 9780077334437). This includes one-semester access to an electronic textbook and to required homework activities.

**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-chapter quizzes administered via e-Learning. 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:** There are both individual and group assignments in this course. It is expected that all members of the group will contribute to these exercises; all members of the group will receive the same grade on these assignments. Individual assignments include homework exercises, a current events photo blog, discussion board posts, and tests/quizzes.

**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. Homework (11%)
2. Online Quizzes (14%)  
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. Current Events Analysis (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 posts for each of 10 topics), accompanied by a comment as to the relevance of the item to the topic in question.
5. 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 10 students per group).
6. Group Work (15.5%)  
There will be two short written assignments (7.75% each) submitted by a group of students. Assignments have individual and group grade components, and grades assigned via peer review.

Each group will collaborate on a group mapping activity (2.5%) to map locations relevant to the course material, including sites of nuclear waste storage, sites of genetically modified crops, and locations with poor visibility, etc.

#### 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:

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
June 30	July 1 Module 1	2	3	4 Module 2	5	6
7	8	9 Module 3	10	11	12 Module 4	13
14	15	16	17 Module 5	18	19	20 (Practice Midterm)
21 (Practice Midterm)	22 Module 6 Midterm Exam	23 Midterm Exam	24	25 Module 7	26	27
28	29 Module 8	30	31	1 Module 9	2	3
4 Module 10	5 (Practice Final Exam)	6 (Practice Final Exam)	7 Final Exam	8 Final Exam	9	10
11	12 (grades due)	13	14	15	16	17

**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.