

Chemistry 10031 – Chemistry in Our World Laboratory – Spring 2009

Dr. Clarke W. Earley
Kent State University Stark Campus
403 Main Hall
Phone: (330) 244-3403
email: cearley@kent.edu
Web site: <http://www.personal.kent.edu/~cearley/>

Dr. Earley's Schedule				
	M	T	W	R
9:30-12:20pm		Organic Lab		
10:00-11:00pm	<i>Office Hrs.</i>	Organic Lab	<i>Office Hrs.</i>	
11:00-12:15pm	Fund. Chem.	Organic Lab	Fund. Chem.	
12:15-1:00pm	<i>Office Hrs.</i>		<i>Office Hrs.</i>	
1:00-2:00pm		<i>Office Hrs.</i>		<i>Office Hrs.</i>
2:00-2:50pm		Basic Organic		Basic Organic
3:00-4:00pm		<i>Office Hrs.</i>		
5:00-5:30pm	<i>Office Hrs.</i>		<i>Office Hrs.</i>	
5:30-6:45pm	Chem. World		Chem. World	
7:00-9:50pm	Chem. World Lab			

Additional office hours available by appointment

Required Supplies

- Course Packet (lab book), safety goggles.

Prerequisites

Students are expected to have either successfully completed or concurrently be enrolled in "Chemistry in Our World" (CHEM 10030).

Course Description

This course is designed to provide a laboratory experience for non-science majors and is intended to (1) introduce some basic laboratory techniques and (2) demonstrate interesting and accessible applications.

The 'textbook' being used for this course is a work in progress. In place of one or more of the laboratory experiments, you may receive a handout which provides the details for the experimental procedure that will be performed the following week. In addition, we will occasionally make changes to the written procedures and/or post-laboratory questions.

Attendance

Attendance in laboratory is required. You may not turn in a laboratory report if you were not present to complete that experiment. While a small amount of flexibility is possible to allow makeup experiments, this should only be used for extraordinary situations. Safety goggles are required and must be worn at all times while in the laboratory. If you are unable to attend laboratory during the regularly scheduled time, you must contact Dr. Earley BEFORE lab. Excused absences will only be given for legitimate, documented excuses.

Grading

Grades for this course will be based on the scores earned on laboratory reports, which will be due one week after each experiment. The lowest lab report will be dropped. Late laboratory reports will be accepted, but will be penalized 1 point for each weekday late. All lab reports must be turned in before the start of finals week.

Tentative dates and titles for each of the experiments are given below. I will inform you of any changes in these as early as possible. Grades will be based on the scale shown below and will not be curved or arbitrarily adjusted in any manner. Extra credit will not be given.

Grading Scale		
<i>Top 12 Laboratory Reports</i>	12 x 20 pts	240 pts Total

Grade	A	B+	B	B-	C+	C	C-	D	F
%	90-100%	88-89%	82-88%	80-81%	78-79%	72-78%	70-71%	60-70%	<60%
Points	216-240	211-215	197-210	192-196	187-191	173-186	168-172	144-167	<144

Quizzes and Exams

There are no quizzes or exams for this laboratory course.

Pregnancy

There are very few studies on the potential hazards to unborn children for most of the chemicals we use in the laboratory. While most of the compounds that we will be using are common household products, a few of the compounds we will use, particularly volatile organic solvents, have the potential of causing harm. While you will be taught how to access material safety data sheets for all of the compounds we use in lab, in most cases this will yield little to no useful information for pregnant mothers. *The safest option is to not be in the laboratory if you are pregnant.* If you choose to stay in the laboratory, be aware that there are potential risks for your child.

Student email accounts

All students enrolled in the Kent State University system are given a FlashLine account. FlashLine is the internet 'portal' that provides access to e-mail, Web for Students, WebCT/Vista, and a number of other resources. University policy states that email is a valid method of transmitting information to students, so it is important to check your e-mail periodically.

Computers and Internet Usage

I will occasionally make reference to material that is available either locally or on the Internet throughout the semester. All of this material will be accessible using any modern Internet browser (Microsoft Internet Explorer, Netscape Navigator, Mozilla, Firefox, Opera, etc.) While it is not required that you take advantage of this information, some of this material can be quite helpful. The address for my Web site is:

<http://www.personal.kent.edu/~cearley>.

Final Grades and Web for Students

Final grades for students are NOT mailed to students at the end of every semester. The ONLY way for students to find their grades is to look at Web-For-Students (<http://wfs.kent.edu> or through Flashline). I will not be able to give final course grades out over the phone, by e-mail, etc.

Office Hours

Office hours are listed near the top of this syllabus. If you would like to meet with me outside of these normal times, see me before or after class (or call) and we can set up additional time to meet.

Course Withdrawal

If you are considering withdrawing from this or any other course, you are encouraged to consult with a staff member in the Student Services Office, 134 Main Hall. Withdrawal from a course can affect financial aid, student status, or progress within your major. For withdrawal deadlines, please refer to http://www.registrars.kent.edu/home/TermUpdate/sche_adj.htm.

Academic Honesty

Use of the intellectual properties of others without attributing it to them is considered a serious academic offense. Cheating or plagiarism will result in a failing grade for the work or for the entire course. Repeat offenses result in dismissal from the University. University guidelines require that all infractions be reported to the Student Conduct Officer on our campus.

Students with Disabilities

Kent State University recognizes its responsibility for creating an institution atmosphere in which students with disabilities can succeed. In accordance with University Policy Subpart E...104.44, if you have a documented disability, you may request accommodations to obtain equal access in this class. Please contact the disability coordinator on campus, Kelly Kulick in Student Accessibility Services, located in the Student Success Center, lower level of the Campus Center, phone (330)244-5047, or kkulick@kent.edu. After your eligibility for accommodations is determined, you will be given a letter which, when presented to instructors, will help us know best how to assist you.

Campus Security

If you need to reach Campus Security, their phone number is 330-705-0430.

Grievance

The "Kent State University Digest of Rules and Regulations" (available online at <http://www.kent.edu/regional/>) should be consulted for information on grievance procedures, statement of non-discrimination, and additional information on official policies.

Classes Canceled - Campus Closings

Announcements of class cancellations and/or campus closings will be made on the campus home page. In the case of an emergency, weather-related or otherwise, please check the web page at stark.kent.edu for information on the buildings and times of the closing. While information may be broadcast by radio and television, this should be confirmed by the web page, which is the official announcement of the campus and which will be the information used to determine issues related to student attendance, rescheduling of tests, and other concerns.

Recycling

The KSU Stark Campus has made a commitment to recycling. Please take a few seconds to separate your trash. Aluminum cans and plastic and glass bottles may be placed in the blue recycling bins, and all types of paper may be placed in the blue recycling bins. All other waste may be placed in the black, brown or gray trash cans.

Tentative Schedule

(All dates and experiments listed below are tentative and subject to change.)

	Experiment
Jan. 19	MLK Holiday: No Lab
Jan. 26	Graphing
Feb. 2	Concentration of Sugar Solutions
Feb. 9 ^(\$)	Qualitative Analysis of Household Chemicals
Feb. 16	Water Hardness
Feb. 23	Visible Spectroscopy
Mar. 2	Separation of Compounds in Spinach
Mar. 9	Stoichiometry of Chemical Reactions
Mar. 16	Acids and pH
Mar. 23	SPRING BREAK
Mar. 30 ^(W)	Analysis of Acids in Household Foods
Apr. 6	Extracting Essential Oils
Apr. 13	Extracting Fat from Potato Chips
Apr. 20	Energy Content of Food
Apr. 27	Properties of a Polymer
May 4	Check-out, Makeup Laboratory Period

^(\$)Last day to receive any tuition refund is February 13.

^(W)Last day to withdraw from a course is April 3.