

Chemistry 101

General Chemistry

Welcome to Chemistry 101! Chemistry is often referred to as *the central science*. Chemistry touches many other scientific fields such as biology, physics, medicine, agricultural science, environmental science, materials science and nanotechnology among others. Chemists ask questions like: What are the properties of this substance? Why do these substances differ in their properties? How can we control these properties? How can we use what we know about substances and their properties to make new medicines, new building materials, innovative electronics, efficient power plants and automobiles that do not rely on gasoline?

In this course we will be asking some of these questions and exploring some of the most fundamental concepts in chemistry. Chemistry is an experimental science, so we will be exploring chemical concepts in the laboratory as well as in lecture. This course satisfies The Natural World General Education Requirement.

Catalog Description: *CHM 101 Open to any non-science major, including nursing, education and business. The principles of general and nuclear chemistry including atomic structure, bonding, stoichiometry, gas laws, solutions, equilibrium, acids, bases, buffers and oxidation- reduction are applied to laboratory work. Laboratory experiments center on the properties of compounds and solutions.*

Headlines from major news media are interspersed throughout this syllabus to illustrate the links between the course content and the rest of the world.

General Information

Instructor: Dr. Kimberly Lawler-Sagarin **Phone:** (630) 617-3202 (x 3202 on campus)
Office: Schaible Science Center 218 **e-mail:** ksagarin@elmhurst.edu
Office Hours: M 4-5 p.m., T 4-5 p.m., W 10:30 a.m. - noon, Th 5-6 p.m., and as arranged
I will start holding these scheduled office hours the second week of classes (Sept. 2).

Class Meetings: MWF 9:15 a.m.-10:20 a.m.; SC 203
Laboratory: meet in SC 224 - Section 01: M 1:00-4:00 p.m.; Section 02 (& 03): T 1:00-4:00 p.m.

Required Materials: Text: *General, Organic and Biological Chemistry: Structures of Life*
(by Karen Timberlake, platinum edition)
Laboratory Manual - General, Organic and Biological Chemistry: Structures of Life
Approved eye protection for the laboratory
Scientific calculator (Only simple function calculators with small rectangular windows are allowed on the exams.)
There is a \$10 photocopying fee associated with this class for worksheets and handouts.
This course will use the Blackboard course management system. Please make sure your Elmhurst Blackboard i.d. points to an e-mail address you check frequently.

Recommended: *Study Guide for General, Organics and Biological Chemistry: Structures of Life*
Web Site: The course web site is available from the "course website" menu of the department home page <http://www.elmhurst.edu/~chm> .

"Troops prepared if chemical weapons used" (*Associated Press, Chicago Tribune, 3/27/03*)

"Senate Committee Votes to Limit CO₂ Emissions by Power Plants" (*Wall Street Journal, 6/28/02*)

"Helping nature take its course: New stream through Highlands of Elgin reduces pH in water flowing toward Fox River" (*Daily Herald, 1/25/02*)

"Study drug seen slowing Alzheimer's: 2 U.S. reports cite delay in dementia" (*Chicago Tribune, 4/3/03*)

Course Structure and Grading in Chemistry 101

Overall Grading Philosophy

At first glance, this entire section on grading may seem a little long. As your instructor, my goal is to help and encourage you to learn. All students learn differently, thus I try to utilize a broad range of methods and assignments. This means that there will be a lot of different opportunities for you to apply the concepts we will be investigating this semester. Correspondingly, there are many different ways to earn points and demonstrate your understanding of the material in this course.

Being graded, especially in science courses, can create a certain degree of anxiety. What I have tried to do here is to write out all of my grading policies so that both you and I know what to expect. *Please* read this and subsequent sections carefully. If you find you have a grading situation or question that is not addressed here, please do not hesitate to ask.

Points and Assignments

Grades on all assignments will be given in points. The maximum number of points possible is 1000. Grading criteria within each of these categories varies and is discussed in the individual sections of the syllabus. Grading for the laboratory portion of the course is described in "Chemistry 101 - Syllabus Part 2 - The Laboratory".

	Points Each	Total Points	Percentage of final grade
Exams (3)	100	300	30%
Final Exam		150	15%
Laboratory		200	20%
Assignments			27%
Homework Problem Sets (10)	10	100	
In Class Exercises and Worksheets (12)	10	120	
Natural World Assignments		50	
In Class Participation	30	30	3%
Quizzes (6) (highest 5)	10	50	5%
Total		1000	100%

Grading Scale

Students must complete the minimum course requirements to successfully complete the course objectives and receive a passing grade in this course. The grading scale will depend in part on my assessment of the difficulty of quizzes and the final. However, the grading scale, for those students meeting all course requirements, will not be raised above the following:

900-1000	A
800-899	B
700-799	C
600-699	D
599 and below	F

This means if you receive 900 points and complete all course requirements, you will get an A. If you have 899 points (and you have completed all course requirements) you will be guaranteed *at least* a B. Students not fulfilling all course requirements will be subject to specific grading policies defined in the next section.

Students within 15 points of the next highest grade *may* be given the higher grade at the discretion of the instructor based on consideration of a high homework percentage, regular attendance, instructor evaluation, and overall performance pattern. To be considered for "bumping up" a grade, you must be within 15 points of the next highest grade and have a score of at least 80% on your assignments (homework, in-class and natural world assignments).

“New polymer fence looks, acts like wrought iron” (*Associated Press, Chicago Tribune*, 6/13/03)

“Ozone hole seen as cooling Antarctica” (*Chicago Tribune*, 5/3/02)

“California Lawmakers Vote To Lower Auto Emissions” (*New York Times*, 7/2/02)

Course Requirements

This course is designed with many different types of activities and assignments. Students are asked to participate actively in all portions of the class. A baseline set of course requirements is established below. These baseline requirements are considered essential for success in the course.

To be graded on the grading scale defined in the previous section, you must complete or meet all the following course requirements. These are listed below:

1. Pass the lecture portion of the course (480 points in lecture)
2. Pass the laboratory portion of the course (120 points in lab)
3. Have no more than 1 unexcused absence from the laboratory
4. Adhere to all safety precautions in the laboratory
5. Pass the final exam
6. Accumulate a score of at least 189 points (70% of 270) on your assignments (homework, in-class and natural world assignments).
7. Miss no more than 1/3 of the in-class problem days.

Please Note: Not meeting the course requirements can have a *significant* effect on your grade in the course. Below, you will find the rationale for these policies, as well as the effect they may have on a course grade.

- Both portions of this course, the lecture and the laboratory, are essential to the course objectives. Thus, all students are required to obtain a passing grade in both the lecture and the laboratory portions of the course.
- The laboratory is an experiential learning opportunity, thus attendance and active participation is required. More than one unexcused absence from lab is not allowed.
- An essential part of this course is problem-solving and critical engagement in the material discussed in this course. Thus, all students are required to achieve a minimum of 189 points (70% of 270) assignment points.
- The final exam will be comprehensive and designed to test broad concepts and ideas discussed in the course. It is expected that all students will receive a passing grade on the final.
- Safety in the chemical laboratory is very important for your own well-being as well as the well-being of others. A recurring disregard for safety precautions may adversely affect your overall grade in the course by as much as an entire letter grade.

In the very unlikely case that a student does not meet the course requirements, that student may not receive a passing grade in this course, depending on the nature and extent of the un-met requirements. At minimum, the student will receive a one-letter grade penalty.

College Policies

College policies on incompletes/drops/unauthorized withdrawals will be followed. Also, **read carefully** the Code of Academic Integrity and the Student Rights and Responsibilities section of the current Student Handbook (E Book) to understand College policies regarding plagiarism, cheating, non-discrimination, and policies regarding privacy with regard to student records. All such policies will be strictly enforced.

If you have a diagnosed disability or believe that you have a disability that might require reasonable accommodations for academic instruction please contact the Disability Services Provider (630) 617-3753. It is your responsibility to initiate a request for services from DSP and to provide appropriate verification of disability. Upon disclosure of a disability verified by DSP, any reasonable accommodation will be made.

Course Assignments

Course Assignments: Natural World Assignments

There will be two “Natural World” assignments directly related to some of the natural world general education category objectives. These will be mini-essays, often with web-based components. There will be some flexibility in your choice of topics. You will receive separate sheets describing each of these assignments.

Course Assignments: Homework Problem Sets

Ten homework problem sets will be assigned and will generally be due on Mondays. To allow time for questions in class, the homework set will be accepted through 5 p.m. Monday evening (or 5 p.m. the evening of the assigned due date). These may be turned in in class on Monday, or in the box outside my door Monday afternoon.

Guidelines for preparing homework assignments are as follows:

1. Homework must be completed on standard 8.5 by 11 inch paper.
2. Multiple pages should be stapled together.
3. Please put your name in the top right hand corner of your homework set with your lab section number (01, 02, 03).
4. In some cases, the homework assignment will be a handout. In this case, complete all your work directly on the handout, adding additional pages if necessary.
5. When problems from the textbook are assigned, each problem or question should be written out and *labeled clearly*. Skip at least one blank line between problems.

I ask you to write out the problems for two reasons: it makes it easier to give you detailed feedback on the assignment, and it also makes it easier for you to study the problem later and interpret any feedback. You are welcome to write the problem statement in a brief way - it does not have to be word for word.

6. The full solution should be written out, showing all steps.
7. Show all your work on mathematical problems. No credit will be given for such problems if your work is not shown.
8. Final answers must **always** include correct units.

Keys to the homework will be available at the Chemistry 101 Web Site shortly after the class in which the assignment was due. This is easiest to access by going to the Chemistry home page: (<http://www.elmhurst.edu/~chm>) and following the links to the Chemistry 101 home page.

Grading of problem sets is as follows.

1. Each problem set will be worth 10 points.
2. You will receive 5 points for just attempting *all* the problems. The remaining 5 points will be assigned based on successful completion of selected problems.
3. *One point will be taken off if problem statements aren't included in your assignment or if multiple pages are not stapled together.*
4. Late homework: accepted ONLY with a “Late Certificate” (See the section regarding skipped or late assignments.)

“10 States to Discuss Curbs on Power-Plant Emissions” (*New York Times*, 7/25/03).

“City Trees Outgrow Rural Cousins, and Study Credits Urban Chemistry” (*New York Times*, 7/10/03).

Course Assignments: In-class assignments

To facilitate the formation of a learning community within Chemistry 101, one day each week (Fridays) will be devoted to in-class work. These days will generally start with a short introduction to the day's topic and the assignment for the day. On a typical in-class problem day, I will assign a worksheet consisting of problems or other tasks. Often, you will work in small groups on collaborative assignments. On a few occasions, there will be a warm-up task you must complete before coming to class but these will be announced well in advance. Please bring your calculator (always) and textbook and/or lab manual (as specified) to in-class problem days. All Fridays are in-class problem days except for scheduled Friday exam dates and holidays.

One additional note: As this is a very large class for Elmhurst, I have recruited several students from last year's class to be available to help answer questions on these in-class days. All of us will circulate throughout the room to address any difficulties that arise.

In class assignments/worksheets will vary somewhat in length. Depending on how comfortable you are will the material being explored that day, you may: (1) finish early (2) finish by the end of the period or (3) need more time to complete the task. Students may turn in their assignment at the end of the period, and those who would like to have more time are welcome to take the worksheet with them and complete it by Wednesday of the following week.

The full worksheet will be graded out of 10 points. Participation points will be based on attendance on these days.

Skipped or Late Assignments

Because everyone has a bad week, gets sick, or just runs behind, you will get a series of "Late Assignment Certificates". **Late assignments will NOT be accepted for regular grading unless accompanied by a certificate**, or the assignment is postponed for the entire class. Exceptions to this policy will only be made in the case of serious (and documented) illness or tragedy. (See: "What if I run out of certificates?" below)

Certificates are as follows:

- You will receive two certificates that will allow you to turn in a problem set, worksheet, or other assignment **1 day late** (1 weekday, by 5 p.m. the NEXT weekday).
- One certificate will allow you to turn in a problem set, worksheet, or other assignment **1 week late**. Use of the one-week late certificate will generally mean the students will occasionally have access to the key or the graded work of others. Thus, a student with an unused week-late certificate will be able to turn in a corrected problem set to be graded again the last week of class.

"What if I run out of certificates?"

If you run out of certificates for routine mishaps and delays and have to miss any additional assignment(s), you may turn in the assignment(s) at the end of the semester. You will not receive homework points for the late assignment, but it will be counted toward the homework completion course requirement (completing 70% of assigned work) and will be considered in the instructor evaluation.

"Chemical-free dry cleaning: A sound proposition" (*Chicago Tribune*, 12/18/02).

"Critics Say E.P.A. Won't Analyze Clean Air Proposals Conflicting With President's Policies" (*New York Times*, 7/14/03).

"Discarded War Munitions Leach Poisons Into the Baltic" (*New York Times*, 6/20/03).

"A new rival to Viagra enlists the N.F.L. to put a masculine face on a sensitive subject." (*New York Times*, 7/18/03).

“E.P.A. Reintroduces Standards to Control Ozone and Smog and Encounters Criticism“ (*New York Times*, 5/16/03).

“BONES AND MORE; When It Comes to Calcium, The Advice Is to Keep Eating” (*New York Times*, 6/22/03).

“Illinois braces for surge of nuclear waste traffic” (*Chicago Tribune*, 7/14/02)

Participation Points

Class participation points will be assigned based on attendance during in-class problem days. The grading scheme is below:

number of unexcused absences	points (out of 30)
0-1	30
2	25
3	20
4	15
>4	0

I will grant an excused absence in the following cases, as prescribed by the college for exams : (1) serious illness; (2) an order from the US Military; (3) officially representing the College; (4) death in the immediate family. All such instances will require documentation. For in-class days involving worksheets, the worksheets must be completed to receive the excused absence. For others, alternative work may be assigned.

Recommended Problems

In addition to the assigned homework which will be collected and graded, it is highly recommended that you work through all the exercises within the text as well as unassigned problems at the end of each chapter. I will compile a list of recommended problems from the end of each chapter prior to each exam. Some problems on the exams will often come directly from these suggested problems.

Exams and Quizzes

There will be three midterm exams. Each exam will be given at the beginning of class and may include: lecture material (as specified), any assignments completed since the last exam, assigned material in the text since the last exam, and any video segments shown in the lecture or laboratory since the last exam. You are responsible for assigned reading in the text regardless of whether that material has been discussed in lecture. I will never give “pop” quizzes in lecture, however it is your responsibility to be aware of rescheduled exams. Rescheduled exams will be announced in lecture or laboratory. If you miss class, you should check the course website for announcements.

No exams will be dropped. Every student will be given the opportunity to make-up or re-take 1 exam at the end of the semester.

Exam guidelines are as follows: closed book, no talking, no sharing calculators, no brimmed hats. Bring pens/pencils, scientific calculator. Scratch paper will be provided. Only simple function, non-programmable calculators with small rectangular windows are allowed on exams. When you enter the room on exam days, please spread out, allowing plenty of room for each person to work.

A total of six quizzes will be given. These will be in the lab sections and will be completed prior to leaving the laboratory. Two quizzes will be given before each exam to let you know how you are doing with the material that will be covered on the exam. Only your five highest quiz scores will be counted toward your grade. This means you may miss one quiz without penalty, however, it is to your advantage to take all the quizzes.

Policy on Missed Exams or Quizzes

Attendance on exam and quiz days is **mandatory**. I will grant permission to make up an exam or quiz **ONLY** if your absence is due to any combination of the following: (1) serious illness; (2) an order from the US Military; (3) officially representing the College; (4) death in the immediate family. All such instances will require documentation. It will be your responsibility to set up a time to take a make-up exam or quiz. In the case of reason #3, please let me know you will be missing the exam well in advance of the event. In all other cases, let me know as soon as feasible (e-mail, phone, etc.).

A missed exam (for any other reason than the four listed above) will only be made up at the end of the semester. This policy is in place in order to apply the same standards and opportunities to all students in the course.

Retake a Test Day!

The make-up/re-take period is Friday, December 5th, during normal class time. Each student may choose to retake one exam. Specific guidelines for makeup/retakes are below:

- The make-up day is scheduled for the class period, Friday December 5th.
- You may make-up one exam for any reason.
- If you did not take the exam the first time, you must get at least 30% on the make-up exam in order for your score to be counted. Anything under 30% will remain a zero. (Any student for whom this applies may request permission to have this requirement waived. This situation is extremely rare, but if you find yourself in this situation, I will notify you as soon as the make-up exams are graded. A written request should then be submitted to me with a description of why you missed the original exam. This can be submitted any time prior to the last day of finals week.)
- If you did take the exam the first time and you receive a higher score on the make-up it will replace your previous score. If you receive a *lower* grade, the scores will be averaged, with the higher score weighted 2:1 with the lower score. (example: if you received an 80 on the first exam, and then retook that exam and scored a 65, your score would become $(80 + 80 + 65)/3 = 75$.) If your score was lower, but within 10 points of your previous score, this will be waived and only the higher score will be counted.
- You must inform me by Wednesday, December 3rd that you wish to take a make-up exam and you must choose which one you will be taking.

Goals and Objectives

This course fulfills the General Education requirement for the Natural World Category. Courses in The Natural World category develop students' knowledge of the natural world through a variety of scientific inquiry methods. They provide an understanding of the basic concepts, principles and methods of science. Objectives include:

- **Objective 1:** Investigation of the basic concepts and principles of a particular discipline in the natural sciences.
- **Objective 2:** Active exploration of the unifying paradigms of science; namely, the development of inductive inquiry skills as illustrated by the scientific method and of deductive skills via the use of the discovery method of scientific inquiry.
- **Objective 3:** Consideration of the scientific, historical, social, philosophical, and ethical contexts in which science is practiced.

We will be meeting these objectives through a combination of class lectures, class activities, course assignments and laboratory experiences.

“Upping the sulfur also ups the ante in energy wars” (*St. Louis Post-Dispatch*, 3/24/02).

“Asbestos found at Soldier Field” (*Chicago Sun-Times*, 1/23/02).

“F.D.A. Approves Over-Counter Sales Of Top Ulcer Drug” (*New York Times*, 6/21/03).

Getting Help:

There are many resources available to you for helping you complete this course successfully. I have office hours each week which you should try to take advantage of. These are intended to be used for in-person tutoring. You may also feel free to stop by my office at times other than those posted. An open door, or the sign “In - Available” indicates I am available for questions.

One of the best ways to contact me is by e-mail (ksagarin@elmhurst.edu). I will generally respond via e-mail fairly quickly.

The class web site will have many resources. Check it frequently for announcements, updates, and helpful links.

A good time to call me and find me in my office is around 4 or 5 p.m. (after labs are finished), but you may leave a message anytime. To protect your privacy, I will not leave any information relating to your assignment, exam or course grade on an answering machine. Please leave me a time frame when you can be reached, or specific instructions that I can leave the requested information on an answering machine. Otherwise, I may wait to answer your question in class, or send you e-mail later. I check my e-mail more frequently than my voice-mail, so you may want to try that if you are in a hurry.

The publishers of the textbook have created a web site for use with the text. You can reach it by going to <http://www.chemplace.com/college/>.

The Elmhurst College Learning Center provides a variety of services to Elmhurst College students. Students can receive one-on-one tutoring in math, reading, writing, and study skills areas. A variety of other resources are also available including workshops, handouts, videotapes and on-line resources. The Learning Center is located in Frick Center 229. (x 3155)

The Writing Center, located inside the Learning Center in the Frick Center, offers one-on-one tutorials to help students at all levels to improve their writing. (x 5689)

Extra class handouts will generally be available on the website in pdf format. I will leave extra copies by my office door (Science 218, 2nd floor, south side) immediately following the class. In-class announcements will be placed on the web site. If for some reason you have to miss class, please check these for information and handouts.

“Antioch chemical spill probed: State considers penalties against hauler” (*Chicago Tribune*, 2/26/03).

“Fabrics Smart Enough to Change Colors and Keep You Dry” (*New York Times* 6/13/02)

“Mercury Found in Midwest Rain” (*The Associated Press News Service* 9/15/99)

The Class Web Site:

You can reach the Chemistry 101 Web Site from the Chemistry Department Web Site: <http://www.elmhurst.edu/~chm> . The course web site will serve as a clearing house for information regarding the course. We will make use of the blackboard course management system for communication regarding points and grades. Keys to the homework will be available at the Chemistry 101 Web Site shortly after the class in which the assignment was turned in. Keys for exams will generally be up by the week following the exam. Announcements made in class will also be placed on the site. Other resources will appear on the site as the semester progresses.

“Testers give cleaning additive a try in their dishwashers” (*Chicago Tribune*, 12/8/02)

“Steroids Raise Fuss And Muscles” (*New York Times*, 6/23/02)

“Running on vapor - Fuel cell future shines bright as hopes for battery-powered electric car dim” (*San Francisco Chronicle*, 1/7/02)

“Japan positive on negative ions: Gadgets abound as health fad gains strength” (*Chicago Tribune*, 6/10/02)

“U.S. Predicts Cancer Deaths at Proposed Plutonium Plant” (*New York Times*, 6/26/03)

Tentative Schedule:

I will be supplementing the text with occasional handouts containing more examples and practice problems. In Chemistry 101, we will study the chemical concepts discussed in chapters 1-10. There is some flexibility in the schedule and the dates for the chapters listed in the schedule are approximate. I reserve the right to change due dates for assignments if the need arises. As time permits at the end of the term, there will be a brief excursion into organic chemistry (chapter 11), and we will synthesize some organic compounds in the laboratory.

Any delayed due dates will be announced as soon as possible. Any more serious modifications will be announced well in advance.

Fall 2003 Schedule on the Next Page →

Chemistry...is one of the broadest branches of science, if for no other reason that, when we think about it, everything is chemistry. (Luciano Caglioti, “The Two Faces of Chemistry”, The MIT Press, Cambridge, Massachusetts, 1985, p.xv)

Chemistry stands at the pivot of science. On the one hand it deals with biology and provides explanations for the processes of life. On the other hand it mingles with physics and finds explanations for chemical phenomena in the fundamental processes and particles of the universe. Chemistry links the familiar with the fundamental. (P. W. Atkins, “Molecules”, W.H. Freeman and Company, New York, 1987. p. 2)

“Discharge coloring sentiment about mill Packaging Corp. pumps wastewater into Lake Michigan” (*Associated Press, Chicago Tribune*, 2/3/03).

“Towns Hope Winter Won’t Sap Salt” (*Daily Herald*, 1/10/2001)

“Is That \$5 Gallon of Milk Really Organic? — New Government Labels Will Help Guide Shoppers In the Health-Food Section” (*Wall Street Journal*, 8/20/02)

“Women’s Sleep Disorders May Be Tied to Hormones” (*New York Times*, 8/6/02)

“Colorectal Cancer Drug Wins Quick Approval From F.D.A.” (*New York Times*, 8/13/02).

Week #	Day	Date	Text Chpt.	Assignments Due	Exams and Quizzes	Lab Exps. for the week	Notes
1	M	Aug. 25	1			safety	
	W	Aug. 27	1			check-in	
	F	Aug. 29	1				
2	M	Sept. 1	-			no labs	No Class - Labor Day!
	W	Sept. 3	2			this week	
	F	Sept. 5	2				
3	M	Sept. 8	2	probset 1	quiz 1 (in lab M,T)	exp	
	W	Sept. 10	2			2	
	F	Sept. 12	4				
4	M	Sept. 15	4	probset 2	quiz 2 (in lab M,T)	exp	
	W	Sept. 17	4			5	
	F	Sept. 19	4				
5	M	Sept. 22	5	probset 3		exp	
	W	Sept. 24	*		Exam 1	8	
	F	Sept. 26	5				
6	M	Sept. 29	5			exp	
	W	Oct. 1	5/6			10	
	F	Oct. 3	6				
7	M	Oct. 6	6	probset 4	quiz 3 (in lab M,T)	exp	
	W	Oct. 8	6			11	
	F	Oct. 10	7				
8	M	Oct. 13	-			no labs	No Class - Fall Recess!
	W	Oct. 15	7	probset 5		this week	
	F	Oct. 17	7				
9	M	Oct. 20	7	probset 6	quiz 4 (in lab M,T)	exp	
	W	Oct. 22	9			16	
	F	Oct. 24	9				
10	M	Oct. 27	9	probset 7		exp	
	W	Oct. 29	9			17	
	F	Oct. 31	*		Exam 2		
11	M	Nov. 3	10			exp	
	W	Nov. 5	10			19	
	F	Nov. 7	10				
12	M	Nov. 10	10	probset 8	quiz 5 (in lab M,T)	exp	
	W	Nov. 12	8			20	
	F	Nov. 14	8				
13	M	Nov. 17	8	probset 9		exp	
	W	Nov. 19	3			14	
	F	Nov. 21	3				
14	M	Nov. 24	11	probset 10	quiz 6 (in lab M,T)	exp	
	W	Nov. 26	11			29	
	F	Nov. 28	-				No Class - Thanksgiving Break!
15	M	Dec. 1	*		Exam 3	exp	
	W	Dec. 3	rev			39	
	F	Dec. 5	*		Exam Make-up		
16	M	Dec. 8	-	Reading Day			Opt. Q&A Session
			-				time tba
	W	Dec. 10	-		Final Exam		
		-		8:00 a.m. - 10:00 a.m.			

Table 1: Tentative Schedule - Chemistry 101 - Fall 2002