

CHEMISTRY 1110

Section 040 & 042

Spring Semester 2012

Instructor: Luther Giddings, Ph.D.

Office: SI 219

Office Hours: M-Th, 2 p.m.- 3 p.m. or as arranged-by appointment only

E-mail: lu.giddings@slcc.edu- please include your name and course number when you contact me. **Please do *not* use Vista mail!**

Useful links:

1. SLCC MyPage at <http://www.slcc.edu/>
2. web site for notes, scores, and course information: <http://www.slcc-science.org/chem/giddings/chem1110int/>
3. Chemistry department web site: <http://www.slcc-science.org/chem/> for labs, lab schedules, and class information
4. Campus map: http://www.slcc.edu/locations/images/redwood_map.pdf
5. Instructional Testing Center: <http://slconline.squarespace.com/testing/>
6. SLCC Online: <http://slconline.squarespace.com/>

Texts (both are required):

1. "Elementary Chemistry: Lecture Notes;" by Luther Giddings, 2nd printing
2. "Fundamentals of General, Organic, and Biological Chemistry;" by John McMurry, Mary Castellion, David Ballantine, Carl Hoeger, and Virginia Peterson; SLCC 4th Ed or non-SLCC 6th Ed.

Course Objectives:

1. To gain a fundamental understanding of the basic principles of introductory chemistry and essential problem solving skills
2. To gain a better understanding of and appreciation for the role of chemistry in everyday life.

Grading Scale			Point break down		
A	93-100%	4.0	Midterm exams	2 x 15%	30%
A-	88-92	3.7	Final Exam	30%	30%
B+	84-87	3.3	Nomenclature (Ch.4) quiz	10%	10%
B	78-83	3.0	Quizzes	10 x 25 pts	30%
B-	74-77	2.7	Chemistry in the News	100 pts	
C+	70-73	2.3	Molecules Around Me	100 pts	
C	66-69	2.0	100% possible		
C-	62-65	1.7			
D+	58-61	1.3			
D	54-57	1.0			
D-	50-53	0.7			
E	<50%	0.0			

General information, computer skills & problems, and math: This is a web-based course. There are no actual meetings nor are you required to be online at any specific time. Within the quiz, exam, and assignment deadlines you may work your way through this course at your convenience. If you've never taken a web-based course before or if you're not sure what to do, you need to go to **SLCC Online** (<http://slcconline.squarespace.com/>) and acquaint yourself with your responsibilities as a student.

That you have registered for this particular course pre-supposes that you have a computer, internet access, and are comfortable and competent using a web browser and other common software. If this is not the case, you need either to come up to speed yourself or to drop this course and take a classroom section. I am not here to help you learn how to use computers. While I provide the content for this course, I do not have any of the necessary authority through SLCC to help you with computer problems. If you find errors in or have questions about the course content, please contact me. If you have problems with Vista or your computer, please do not contact me: I cannot help you nor am I responsible. Your best bet will be to contact SLCC Computer Support at 801.957.5555.

Math is in fact a prerequisite for this course. If you have not taken either Math 1010 or 1020 or do not remember them you should not be in this class. We don't do anything much more difficult than arithmetic, simple algebra, and simple story problems, but if you're not comfortable with math you will undoubtedly and unavoidably struggle with this class. Understanding the necessary math is your responsibility as a student. It is not my responsibility as an instructor to teach it to you. I am here to help you learn chemistry.

Why is chemistry so hard? Many students are terribly frightened at the prospect of taking a chemistry class. Horror stories abound, as many students who complete chemistry classes struggle with the material. And yet, as potential health care professionals, understanding chemistry is essential to providing correct, competent, intelligent care. Moreover, in the process of mastering chemistry you will begin to learn and practice skills essential to the practice of your future profession and to your participation as an informed consumer and member of society.

- Chemistry has its own vocabulary. There are times when studying chemistry seems like the learning of a foreign language, and with good reason. Be sure to identify and learn important chemical terms as you study for this class.
- Chemistry not only has its own vocabulary, it requires us to become familiar with concepts and ideas that are often new, strange, and confusing. And yet, while it may be a struggle, the mastery of these new concepts and ideas can open doors to fascinating, beautiful, and powerful places we could not otherwise visit.
- Chemistry requires the use of mathematics, indeed, mathematics is the language of chemistry and of all the physical sciences. The math skills required for this class are around the level of elementary and junior high school math, so they are certainly within reach of all students who take this course. If you do not know how to apply these skills you will not only struggle in this class but in other nursing classes, such as pharmacology, and also in your practice as a health care professional. If you have math problems don't run from them and don't ignore them because they will not go away. Turn around, face them squarely, and learn what you need to know. You may need to brush up on those skills before taking this class. Don't be so locked into getting into your program so quickly that you have to repeat this class two or three times before you pass it, simply because you have poor math skills and tried to slide by.
- Chemistry requires you to apply what you learn. Many students incorrectly equate learning with memorization: "I remember, therefore I know." While this is true of certain subjects, in chemistry you must not only be able to remember what you've learned, you must be able to use it in situations that are unfamiliar to you. In chemistry

remembering is a start, but only a start. This is also true of health care. It is not possible to teach you of all the various things you may encounter as a professional. You will need to remember your training and then figure out how to apply it to what, to you, is a new and challenging situation. Chemistry requires you to reach beyond your book and to think about and apply those things which are discussed. This is a new, challenging, and demanding requirement for many.

- Chemistry requires far more time and far more effort than most students are accustomed to giving for a class. You may well have slid by with minimal effort in your English and history classes or as a high school student. I suspect you will find this class to be something more of a challenge. Many students find that it takes more time and more effort to earn an "A" in chemistry than in any other class they take, including anatomy, physiology, and other challenging classes. Students who succeed in this class typically spend a minimum of 10-20 hours every week on just this course alone. If you don't have this much time to dedicate to this class, you'll be frustrated by it, you'll struggle with it, and you may earn a grade far lower than you would like.
- We cover an awful lot of material in this course. It often surprises students to learn that the curriculum for this course is not set by me as instructor, by SLCC, or by the textbook publishers. The course of study in this class is determined by the American Chemical Society, the professional organization that governs the teaching and practice of chemistry in the United States. Professional organizations in nursing, nutrition, dental hygiene, and many other fields review and comment on proposed curricula before they agree to require this course of their students. So half-way through this semester, when you're up to your eye balls in chemistry and cursing me for the volume of material we cover and the rate at which we proceed, remember, I am simply following the guidelines set and agreed to by leaders in your field of study. Should I deviate even slightly, this course would no longer satisfy the requirements set for you by your future profession.

How to approach this class: you will be teaching yourself chemistry in this course. You will accomplish this through studying my lecture notes and the text, through working problems, and through writing assignments. While I am your instructor, your direct experiences with me will be infrequent, if ever. There are no lectures nor any other meetings for this internet course at any time, on campus or online, although you should feel free to drop by my office or to contact me by e-mail any time you like.

It is possible to learn elementary chemistry over the internet. Many student take this class, do exceptional work, and complete the course with a very good working knowledge of fundamental chemistry. You must be willing and motivated to work very hard without supervision. You must be extremely focused. You must be prepared to follow written instructions with a high degree of care. You must be consistent and meticulous in reading **everything** in my lecture notes and in the text, in carefully reading **everything** in **all** of the notes I post on the Vista discussion board, and also in your practice of what you are being taught.

Your success - or failure - in this class will depend directly on **you and your skills and abilities as a student.**

Most students do have what it takes, although with far more effort than they realize. But this class is **not** for everyone. I'm not trying to scare anyone off. But I want you to be fully aware of what you're getting yourself into. **Begin by reading this syllabus very carefully and thoroughly.** Refer back to it often during the semester.

I suggest for each chapter:

- Begin by studying my lecture notes for that chapter. They are available in the campus bookstore.
- Next, read the corresponding chapter in the text. Material found in the text but not treated in my lecture notes is not material for which you are responsible.
- There are times when my lecture notes say one thing and the text may say another. This is not because I am right and the text is wrong, nor is it because I am wrong and the text is right. Not all chemists agree on every point we discuss in this class. I require you to know what I tell you in my notes. If you read the text and ignore my lecture notes you will have problems on the quizzes and exams.
- Work as many problems as possible. As you read my lecture notes and the text, keep a pencil and paper close at hand. Work all of the sample problems provided in my notes and also in the text. **You should also work, at a minimum, all of the problems suggested in Mastering Chemistry** (described below). Understand that chemistry is often problem-based, and many of the problems you will be required to work will be story problems. These problems may never be easy for you, but they will become easier as you master chemical concepts and problems-solving skills through dedicated, regular practice.
- I have provided optional Prentice-Hall slides for each chapter. Some students find them helpful. Use them or not, as you decide.

Class meetings: this is an online course. There will not be any mandatory class meetings, either on an SLCC campus or at any time online. You will need to come to the SLCC campus to take your three exams for this course and to submit and pick up your work. That's it.

Submitted work: All work submitted must be stapled or paper-clipped, i.e., no loose papers or dog-eared or folded work will be accepted. Do not submit your work in three-ring binders or in page protectors (transparent plastic sleeves). Your work must appear to be the work of college students. I expect your work to be submitted on time and will not give any credit for late work without prior permission.

I require your two writing assignments to be typed in a 12 point Times, Times-Roman, or Times-New Roman font and stapled. The "Chemistry in the News" assignment must be double-spaced. The "Molecules Around Me" assignment should be single-spaced and may be printed in either portrait or landscape format. All margins should be 1", no more and no less. Failure to meet this requirement may result in a very substantial loss of points. Hand-written assignments (i.e., pen or pencil work) will not be accepted and will be awarded a score of "0." See the class web site for further information about the two assignments. Exam re-grades may be hand-written and will be discussed at a later date during the semester.

Neatness and spelling do count on quizzes and assignments. Submissions that do not meet the described criteria may be docked a substantial number of points. **Be sure to make photocopies of *all* work you submit to me, in case it somehow is lost in making its way from you to me.** This does not happen often, but often enough and it really sucks when it happens to you!

All work must be submitted by the posted deadlines to the Distance Learning office in CT 070, Redwood Road campus. It may be delivered by hand or you may mail it to them. Absolutely do not send me work by e-mail or fax for any reason. It will not be accepted.

Do yourself a favor and re-read this previous section before submitting any work to me!

Grades: 30% of your grade will be based on the average of your quizzes and writing assignment scores, 10% on your (Chapter 4) nomenclature quiz score, 30% for the two midterm exams (15% each), and 30% for the final exam. The following equation will be used to calculate the final percentage on which your class grade is based:

$$\% = (\text{quizzes} \times 0.30) + (\text{nomenclature} \times 0.10) + (\text{mt-1} \times 0.15) + (\text{mt-2} \times 0.15) + (\text{final} \times 0.30)$$

Assume a student scores 485 out of 500 points on quizzes and assignments (94%), 100% on the nomenclature quiz, 85% and 83% on the two midterm exams, and 76% on the final exam. This student's final percentage will be

$$(94\% \times 0.30) + (100\% \times 0.10) + (85\% \times 0.15) + (83\% \times 0.15) + (76\% \times 0.30) = 86.2\%$$

and the student's grade for the course will be a "B+". **Note: I do not "curve" grades or adjust them based on class test scores scores - ever.**

Due dates: due dates for all quizzes, exams, and assignments are as per the calendar on the last page of this syllabus *or* as announced on the Vista discussion board. If you miss a quiz or exam, I'm sorry but you're out of luck - without exception. If you have an *excellent* reasons for submitting one of the writing assignments or exam regrades late and if you contact me and receive my permission *in advance*, I may still accept your work. Writing assignments or exam regrades submitted late without prior permission will not be accepted.

Texts: There are two required texts for this course, "Fundamentals of General, Organic, and Biological Chemistry;" by John McMurry, Mary Castellion, David Ballantine, Carl Hoeger, and Virginia Peterson; SLCC 4th Ed or non-SLCC 6th Ed. and "Elementary Chemistry: Lecture Notes;" (2nd printing) by Luther Giddings. The McMurry text is essential for success in this class for several reasons, not the least of which is that it provides you with the opportunity to practice the skills you are hopefully learning. However, when I began to teach Chemistry 1110 by internet it quickly became apparent that the text alone was not sufficient to help students learn and master the required material. The lecture notes are, essentially, the course material as I would deliver it to you verbally in a classroom setting. These notes generally follow the text, although there are some things in the lecture notes that you will not find in the text. There are also some things in the text that you will not find in the lecture notes and these things you may safely ignore in this class. There are also, occasionally, a few areas of disagreement between the text and me. This does not mean that one of us is wrong and the other, right. There are a number of areas in chemistry in which the experts disagree. In those cases, I require you to go with those things as you find them in my lecture notes. I invite you to post questions about these disagreements on the Vista discussion board, should any questions or concerns arise.

As stated, we are currently using the SLCC 4th edition of the McMurry and Castellion text. This is equivalent to the 6th edition of the non-SLCC version of the same text which is available through other sources such as Amazon.com. The SLCC edition has been slightly modified to better meet the needs of instructors and students at SLCC. It is printed in a soft-bound cover to make the book less heavy and a bit less expensive. Any edition of the McMurry & Castellion text will work for this course. The only problem you may encounter is that chapter problems might be slightly different in other editions, but you will not be submitting these for a grade in this class.

I will also point out the obvious: yes, I am the author of the lecture notes. However, you should know that I have prepared these lecture notes on my own time and at my own expense. I have not been compensated for this work, nor do I ask to be. I do not make *any*

money on the sale of these notes, nor have I ever, nor do I receive any compensation of any sort, other than the satisfaction of knowing that they have helped many of my past students successfully complete this course. I make them available with the hope that they will also help each of you, as students, and not to profit from them.

Vista: Vista is the component of class which you access through the "Courses" tab when you log onto SLCC's MyPage. You must use the Vista portion of this course for two things, (1.) quizzes, and (2.) the discussion board and announcements. Everything else you need for this course can be found at the SLCC-Science web site. All of your quizzes for the course will be administered through Vista. As a condition of class I require you to check the Vista "Discussions" link and "Mail" link a minimum of twice weekly and preferably more often. If you miss something because you have not been checking the discussion board and your e-mail you will receive neither mercy or sympathy. **You are required to read **every** note I post on the discussion board whether it is addressed to you or not.** This is analogous to attending class and hearing announcements and answers to questions given verbally to another student's questions. I encourage you to save all notes I post and to never delete anything I post, as it may become useful to you at some point in the future of this semester.

If you want/need to email me, please, do **not use the Vista email! Please use the SLCC address at the top of this syllabus.**

SLCC-Science: the SLCC-Science web site has everything you need for this course **except** the quizzes and the discussion and announcement boards. You will find copies of the syllabus, updated copies of all lecture materials, copies of old exams, and a periodic posting of your scores.

Exams: There will be two midterm exams and a final exam. The first midterm will cover (approximately) chapters 1-3 and the second midterm will cover (approximately) chapters 4-6. The final will be comprehensive. The dates are as per the calendar on the last page of the syllabus. Plan well in advance. I almost never grant exceptions or deferrals regardless of reason and I do not offer make up exams except for school-approved reasons. If you miss an exam, you're out of luck. Please, be responsible and plan ahead **now** unless you're not serious about passing this course. If you miss a midterm, the **best** you can hope to earn in class is a B+ and even that will be a considerable challenge.

All exams for this course will be administered through the SLCC Online Instructional Testing Center (ITC) at either the Redwood Road campus or the South City Campus (SCC). The Redwood Road ITC is located on the Taylorsville Redwood Campus, Construction Trades Building (lower level west hall), Room 070. The SCC facility may be found at in the Main Building, Second Floor, Room N287. Given the volume of exams administered in the ITCs, you are required to make a seat reservation. To make your reservation go to SLCC Online (<http://slconline.squarespace.com/testing/>). The reservation link is part-way down the page. Failure to make a reservation may result in you missing the opportunity to take your exam. If you are taking this course and if you live along the Wasatch Front, in other words, between Brigham City and Nephi, you must drive to Salt Lake to take your exams. No exceptions will be made for any reason. You **must** make a seat reservation to take all exams. You may do this either online or by telephone. Appropriate information may be found at. You must present your SLCC ID to take an exam in the Testing Center. No other form of ID will be accepted. This is also true when you retrieve your graded exams from CT 070. It is your responsibility to know the Testing Center hours. The Testing Center will not hand out exams within two hours of their closing time, and if they are busy you may have trouble. Do not wait until the last minute unless you don't mind a "0" as an exam score.

If you live outside of the Wasatch Front area, in other words, if you do not live between

Brigham City and Nephi, you may arrange to have your exams proctored so that you do not have to travel to campus to take your exams. Visit <http://slcconline.squarespace.com/testing/> for additional information. I require all proctored exams to be taken at the Testing Centers of the nearest college or university and will not approve any other accommodations. Proctor agreements must be submitted to the Distance Learning office no later than Friday, January 20th. Otherwise, regardless of where you are taking the course, you will need to come to Salt Lake to take your exams for this course.

A single 3" x 5" card may be permitted on each exams. You may use the same card for each exam, or you may make a new card for each exam, as you prefer. English language aids may be used by those eligible. A simple scientific calculator will be essential. It must be able to perform simple logarithmic functions. If you pay more than \$10-\$15 for your calculator, you've bought more machine than you need for this class. I will always provide you with a copy of the periodic table and much other useful information and I will tell you what is provided several days prior to the exams. The final exam is mandatory. It may not be missed or taken early. Students who miss the final lose out on 30% of the total possible points for the semester. It will not be possible to earn better than a "C-" if you miss the final. Trust me, but in case you don't, do the math and check.

A few more notes on the using the ITCs:

- You must present a College ID (OneCard) upon check-in. **NO EXCEPTIONS!**
- All testing supplies will be provided for you at check-in. Secure lockers are available to store cell phones, books, study aids, etc. Only items approved by your instructor are permitted in the ITC.
- For questions contact the Redwood Road campus ITC at (801) 957-4442 or the SCC at (801) 957-3406.

Quizzes: All of your quizzes for the course will be administered through Vista. I **never** accept written or e-mail copies of quizzes. There will be 10 quizzes, one for each chapter except Chapter 11. The Chapter 4 quiz is the nomenclature quiz and accounts for 10% of your grade. All of the other chapter quizzes and the two writing assignments account for 30% of your grade. You may use any book, including your text and course notes, magazines, or other printed or web-based materials you feel are helpful. You may discuss quizzes with other members of this immediate class but you may not simply exchange answers. You ultimately must do all of the work yourself. You may not discuss the quizzes with tutors, friends, family members, or any one outside of class without my explicit permission. The maximum score you may earn on quizzes and assignments to count toward your grade is 100%.

You should feel free to post questions about quiz problems on the Vista discussion board. I encourage you to respond to the questions of your classmates. I do read all questions and all responses posted on the discussion board and will correct any errors as gently as possible. Remember to be patient and courteous, both in asking and responding to questions. Please, do **not** give your answers when posting your question unless I ask you for further information. Please, do **not** post answers when responding to questions. Feel free to provide hints, page numbers on which to look for information, etc., but simply giving answers ultimately does not help those who ask, especially at exam time. If you ask me a question about the quiz by email, I may respond by email or, more likely, I may ask you to post your question on the discussion board.

The quiz must be completed before the posted closing date and time and within the time period allocated for the quiz. If you miss a quiz for **any** reason, you will receive a score of "0" for that quiz. I encourage you to begin and complete the quizzes as soon as possible. If

you wait until the last minute and have computer problems, I'm sorry but you're out of luck. This includes quiz availability problems due to Vista, which can be rather cantankerous and uncooperative, especially late at night when you have an impending deadline. **I do not extend quiz deadlines for *any* reason.** You usually have a month or more to work on the quizzes, so the sooner you get started the better.

You may repeat the quiz as many times as you are permitted before it closes to try to improve your grade, but your last score, better or worse, will be the score used in the calculation of your grade. Most quizzes give you three attempts. Several give you more. I would suggest you begin by printing a copy of the quiz and working on it at your leisure. Then return a second time and submit the correct answers. Use the third or any additional subsequent attempts to correct any errors in your second attempt. Remember that you must hit the "submit" button or Vista will not close the quiz and it will remain open. Also remember that there is a delay of 3 hours between the time you close a quiz and time Vista permits you to try it again. You must take this into consideration, especially if you leave things to the last minute.

Homework and Mastering Chemistry: There will be no mandatory homework assignments. Exercises from the book will be suggested for every chapter and will be administered via Mastering Chemistry. The quiz and exam problems will generally bear some similarity to problems found at Mastering Chemistry. It will be to your benefit to work at a minimum all of the suggested exercises, as well as any additional example and end-of-chapter problems in the text you need to help you feel comfortable with a particular concept. It is your decision and your responsibility to work as many problems as it takes for you to feel comfortable with a particular concept.

A set of instructions for the access and use of Mastering Chemistry can be found at <http://www.slcc-science.org/chem/giddings/chem1110int/info/masteringchemistry-instructions.pdf> and should be carefully read and followed. The Mastering Chemistry Course ID is "giddings1110spr12".

Lab: this lecture course and the lab are two separate courses. Your grade in one will have no bearing on your grade in the other. Despite what is said in the catalogue, you *may* take them at different times, i.e., different semesters.

Writing Assignment 1: Chemistry in the News (CitN): Why is chemistry pertinent in everyday life, even to those who do not pursue a career in science? How is chemistry relevant to scientist and non-scientist alike? How, when, where, and why is chemistry discussed in the media, and how does it relate to you? You will be required to write four brief review papers that connect the relevancy of chemistry in contemporary life with current events. The papers will be based on printed articles in the newspaper or in magazines. Web-based resources may also be used, i.e. web-based versions of newspapers, magazines, and journals. Two articles should come from daily newspapers and two should be taken from magazines or periodicals. Each original article must contain a minimum of five paragraphs. The sources must have been printed after November 15, 2012 and the article's date must be visible on the copy of the article you submit with your work. I require a brief (a *minimum* of 1.5 pages *typed*, double-spaced & etc.- see the "**Submitted work**" above) written review of each article, along with a photocopy of the article stapled to your review. Each review is worth 25 points. **I want you to explain to me, in your opinion, to the best of your ability, how chemistry makes the theme of the article possible.** This is *not* a series of research papers. I am not grading you on whether or not your opinion is correct. I am looking for evidence that you are thinking and trying to make connections between chemistry and the world around you! Neatness and spelling count. Submissions that do not meet the described criteria may be docked at least 50% of the possible points. Remember to

read the "Submitted Work: section above before submitting this assignment.

To summarize, to correctly do this assignment, you will provide me with a total of four reviews, each at least 1.5 pages in length - meaning you will submit to me a minimum of six double spaced pages, in addition to the attached articles. Use a 12 point font. I do not count double-spaced titles, creative margins, and oversized fonts as a part of this 1.5 pages I require. Do not cut corners on length or you will be penalized.

A few examples of student work from previous semesters may be found at

<http://www.slcc-science.org/chem/giddings/chem1110int/info/doing-citn.html>

Note! If you are repeating this course and have taken it with me previously, you must have written permission from me before the assignment due date if you would like me to consider accepting your previous work. Otherwise I will give you a score of "0" for old work.

Writing Assignment 2: The Molecules Around Me (MAM): I want you to read labels and to research the chemicals found on those labels. Begin by reading the labels of products you have in your home or by browsing the labels of products in stores. You must report on six products, two each from three of the following four categories: (1) food and nutritional supplements, (2) health care and medicinal products, (3) personal hygiene and cleaning products, and (4) outdoor, gardening, and construction and building materials. You must include a photocopy of the label for each product on which you report or hand-copy a complete list of all of the ingredients in your product. None of the chemicals that you report can be the same; you must have information for 30 different chemicals in this assignment. You must use compounds; elements and ions are not acceptable. Each label you use in this assignment must have a minimum of five compounds; you must provide information on five compounds per label. Labels must be complete, legible, and the substances on which you report must be underlined or highlighted. For each product, for every compound you list you must provide the following information:

1. Each compound must be numbered sequentially from 1 through 30. In other words, the five compounds from your first product will be labeled 1-5, the five compounds from your second product will be numbered 6-10, and so on. Failure to meet this requirement will result in the loss of 10 points. Only compounds may be used. Elements and ions are not acceptable. For each compound you must provide the following information. If you cannot find each of these pieces of information for a compound you may not use that compound in this assignment.
 - a. Product
 - b. Compound name
 - c. Correct molecular formula - condensed structural formulas are not acceptable. If you cannot find a molecular formula you cannot use the compound.
 - d. Indicate whether the compound is organic or inorganic. Organic compounds contain both carbon and hydrogen *except* for the carbonates and bicarbonates (see Chapter 4 for more information on these compounds). Inorganic compounds do not contain both carbon and hydrogen (except the bicarbonates).
 - e. The molecular structure of **all organic compounds**: these may be imported as image files, or cut-and-pasted. Hand-drawn is not acceptable. If you cannot find a structure you cannot use the compound. Do not provide inorganic structures.
2. In addition, you must provide a one paragraph toxicity summary for one compound from each of your products. Complete sentences, in your own words, are required. Material safety data sheets will not be accepted in lieu of your personal summary. Failure to provide toxicity information will result in a penalty of 5 points per toxicity summary for a maximum possible score of 70/100. And to reiterate: I expect six

toxicity summaries, not thirty.

Remember, this assignment should be single spaced and may be formatted in either a portrait or landscape layout. Do yourself a favor and review the "**Submitted work**" above before submitting this assignment. Further information on how to do this assignment and where to look for information may be found on the SLCC-Science web site home page for this class ("how to do the "molecules around me" assignment" and "Molecules Around Me: information sources"). It is **your** responsibility to check these pages and it is required. Remember to read the "Submitted Work: section above before submitting this assignment. You may not share information about compounds with other students. **Your work must be unique and it must be entirely your own. Any students caught sharing compounds will receive a grade of "E" for this class.**

Note! You are responsible for reading the page "how to do the "molecules around me" assignment" which may be found at <http://www.slcc-science.org/chem/giddings/chem1110int/MAM/doing-mam.htm>. This page provides detailed information about how to do the assignment and contains information you will probably not find anywhere else in this course. At least one question on the 1st midterm may refer to this page.

Note! If you are repeating this course and have taken it with me previously, you must have written permission from me before the assignment due date if you would like me to consider accepting your previous work. Otherwise I will give you a score of "0" for old work.

Study Groups: many students who take this class by internet seem determined to tough it out on their own. While this is certainly one approach, I encourage you to form study groups and to work together on this material. While your work must be your own on quizzes and assignments, this does not preclude meeting with other students and discussing the particulars of this course, the quizzes, exams, and assignments. Since most students are on campus at some point during the week, meeting face-to-face is usually the most enriching way to work together. But it is not the only way. In this age of cell phones, instant messaging, text messages, e-mail, faxes, and etc. there are numerous ways for determined, serious students to learn from each other. I **strongly** recommend that you immediately form a study group and begin to work together.

Dropping class: if you decide for any reason to discontinue this class, **you** must go through the process of dropping the class with SLCC. I cannot and will not do it for you, although I will help you if I can. If you stop submitting work and do not drop the class, I am required to give you a grade based on the limited amount of work you have submitted. This is almost always an "E."

Late work: all work is due before 5:00 p.m. in CT 070 (Redwood Campus) or Room N287 (SCC) on the due date. Work submitted late **without prior approval from me** will be marked down 25% for the first 24 hours, 50% for the next 24 hours, and given a score of "0" thereafter. If you miss a quiz deadline or forget an exam, you're out of luck. It's that simple, without exception.

Make-up work: I never give make-up exams except for SLCC-approved reasons. Proof of accident, illness, or death i.e., a police report, doctor's note or death certificate, may be required.

Note: Academic honesty is required of you at all times in this course. I expect you to have read the "Academic Standards" section of SLCC's Code of Student Conduct, pages 38-40 in particular (http://www.slcc.edu/policies/docs/Student_Code_of_Conduct.pdf). Any student caught cheating in any way, shape, or form may receive a failing grade for the class

and may be the subject of further disciplinary action by SLCC. Please, have integrity and be honorable, even when things become challenging. It is of far greater value to you than anything you might learn about chemistry in this course.

Copyright notice: all materials in this course are protected by national and international copyright laws. All notes, assignments, quizzes, and examinations are for the sole use of individual students enrolled in this course this semester and may not be shared or redistributed physically or electronically without my express written consent. Lectures may *not* be recorded without first speaking to me and obtaining my explicit consent. Violators may be dropped from class, disciplined academically, and/or liable to civil and criminal prosecution.

The information in this syllabus is a guide only and may be changed at the discretion of the instructor.

**Students with disabilities needing accommodations must contact the Disability Resource Center:
College Center Room 230; 801-957-4659 (voice), 801-957-4646 (TDD)**

Chem 1110-040 & 042: Spring 2012 tentative schedule						
January 2012						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	9-1st day of class	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
February 2012						
			1	2	3	4-Q1-3 due
5	6	7	8-MT1	9-MT1	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27-CitN due	28	29			
March 2012						
				1	2	3
4	5	6	7	8	9	10-Q4-5 due
11	12	13	14	15	16	17
18	19	20	21	22	23	24-Q6 due
25	26	27	28-MT2	29-MT2	30	31
April 2012						
1	2	3	4	5	6	7
8	9	10	11	12	13	14-Q7-8 due
15	16	17	18	19	20	21
22	23-MAM due	24	25	26 - last day of class	27-reading day	28-Q9-10 due
29	30-final exam			28	29	30
May 2012						
		1-final exam	2-final exam	3	4	5