

Chemistry 10: Chemistry for the Liberal Arts Internet Fall 2016

PREREQUISITE: Math 101 NUMBER OF UNITS: 3 TOTAL HOURS OF LECTURE: 54

COURSE INSTRUCTOR: Cliff Gottlieb, Phone: 242-2323. e-mail cgottlieb@shastacollege.edu
web page <http://www.cliffschemistry.com>

Office Hours: Tues. 1:30 – 4:00 PM; Wed. 11 AM – 1:30 PM and at almost any time by appointment to meet your needs in 1412 or in the Science Learning Center, 1626. **Please come and visit**; lots of good stuff happens.

CATALOGUE COURSE DESCRIPTION:

An introduction to the major concepts of chemistry involving minimal student friendly math with attention to their relevance to practical and societal problems. This course is intended for non-science majors who wish to gain an appreciation for the application of chemistry to everyday living. The course includes such topics as nuclear energy and energy alternatives; health issues of drugs; food additives, nutrition, hormones, chemicals for household use, chemicals in the environment, and synthetics. This course may include field trips (not in the online format). This course may be offered in a distance education format. This course will meet the general education requirement for a laboratory science if it is taken with CHEM 11.

The online nature of this course offers students the flexibility in study times to meet individual needs. However, a successful student in an online situation must be motivated, organized, and a self-starter. Plan to spend at least 9 hours per week on this course. I will do everything I can to help you succeed in this course!! You just have to ask!! And always remember, NO FREAKING OUT!!

REQUIRED TEXTS: (The text, other materials, and free tutoring are available in the Science Learning Center, room 1626.)

Chemistry for Changing Times, 14th ed. by John Hill, et al. 9780321972026. Available at the Shasta College Bookstore or any on-line book retailer. I will also accept the 13th ed. 9780321750877 or 12th ed. ISBN 9780136054498. Search for these online using the ISBN number and you will find them much cheaper than the Shasta College Bookstore. The 12 edition will be very cheap. Be careful some 12 editions only have 18 chapters in the text with an online link to the last 4 chapters. THAT LINK DOES NOT WORK!!!! The text has 22 chapters and about 640 pages depending on the edition. Here are two links that will connect you to a list of these texts for cheap. The 12th edition <http://www.directtextbook.com/isbn/9780136054498> and the 13th <http://www.directtextbook.com/isbn/9780321750877>.

I have provided numerous resources on my web sites. On the Shasta College Online course management program (Canvas) are lectures notes; practice worksheets with answers, and links to other websites will assist you in learning the subject matter of this class.

COURSE OVERVIEW

This course will look at some of the fundamental ideas and principles of scientific thinking and chemistry. I will place an emphasis on practical applications of chemistry to everyday life. This is a college/university level course that is transferable to four-year institutions. It is not a high school course. Students who are non-science majors or who are just interested in learning about chemistry in our lives should enroll in this course. If you have any concerns about whether this course is appropriate for you, please contact me.

STUDENT LEARNING OUTCOME:

Students will be able to find, interpret, analyze and apply information and data to solve problems and answer questions in chemistry.

INTERNET DELIVERY ISSUES: The entire course is on the Internet using the Shasta College Online program called Canvas. Unless unusual situations occur, there is no face-to-face component to the course. This delivery system allows students the freedom to set their own schedule for completing the coursework. Most documents are in Adobe Acrobat PDF format. You should download the free Acrobat Reader immediately and install it on your computer. Here is the hyperlink, [Get Acrobat Reader](#). **You must be comfortable with working on computers, downloading files, uploading files and using the internet.** You also must expect to spend the same amount of time on this course to what you would have spent on the face-to-face version of this course. **You should log onto this course every day, check the course calendar, and make sure all of your work is up to date.** You should expect to spend at least nine hours per week on this course. Furthermore you must have sufficient self-discipline to set and adhere to your own and to the course's timelines. The Internet version of this course is equal to the face-to-face version. **DO NOT FALL BEHIND!! I AM ALWAYS READY TO HELP YOU. And always remember, NO FREAKING OUT!!**

Course schedule, timelines, and deadlines can be viewed in this syllabus and on the course calendar. I will try to accommodate out of the ordinary circumstances.

TECHNICAL PROBLEMS: If you have technical problems, **NO FREAKING OUT. Freaking out is not allowed. ☹☹.** You just need to communicate with me immediately or as soon as possible. To communicate with me use Canvas'e-mail. If that is not working, send me an e-mail at cgottlieb@shastacollege.edu and put Chem 10 as the subject.

METHODS OF EVALUATION/GRADING SCALE:

Each of you has the innate ability to earn an "A". I hope that each of you will **work to achieve** an "A"!!

1. 400 points for exams. Four exams are 100 points each plus some extra credit. ☺ There is no cumulative final
2. 100 points for 9 chemistry content quizzes and 3 assignments. Each of these are worth 10 points. There are 12 of them. So three of them are for extra credit, your choice. The syllabus quiz counts 2 points count towards your grade. So it is possible to earn up to 122 points out of 100 points possible.
3. 110 points for classroom discussions. There will be 8 discussion topics at 15 points each. Each will consist of an original post online (10 points); replies to two of your classmates (2 pts each) and completion of a survey about the discussion (1 pt). If you do not complete the survey you will get zero points for the entire discussion. It is possible to earn 120 points out of 110 points.
4. There are 3 optional extra credit quizzes that involve topics that use some more involved algebra math skills. These topics are optional. You can earn up to 15 points for each of these quizzes. Any points earned on these quizzes on optional topics will be added to your total course points as extra credit. They cannot hurt your grade.
5. 10 points for 2 graded surveys at 5 points each. You must complete each on time to pass the course.
6. With reasonable notice I reserve the right to create additional graded work and adjust grade point totals accordingly

Course grades are based on the points that you earn not by percent. There are 610 points in the course with the opportunity to earn up to 687 with the extra credit outline above.

Course Grades: A = 549 or more points; B = 488 – 548 points; C = 427 – 487 points; D = 366 – 426 points; F = 365 or fewer points. THESE POINT VALUES FOR THESE GRADES ARE IN STONE AND WILL NOT BE DEVIATED EVEN BY ONE POINT!

There is NO OTHER CREDIT other than outlined above. No make-up or LATE exams, quizzes, or homework are allowed unless you have immediate family or personal health or legal emergencies. Contact me IMMEDIATELY using the Canvas e-mail or office phone at 530-242-2323 as soon as possible, typically the same day, to notify me of your emergency. Do not call me at home!! Be prepared to FAX me documentation to verify your emergency. If you have health, legal, or sports non-emergencies, you may be able to make arrangements to take an exam, quiz or submit homework early. You must contact me at least one week before the quiz/exam to make arrangements. If technical problems occur during an exam or quiz, call me immediately 530-242-2323.

If you work within my parameters, I will do everything I can to accommodate your needs. I do not drop exams, nor offer other extra credit. Keep track of your own total points and grade using the Shasta online program. About mid-semester and the week before the last day to drop, I will review your class grade. Otherwise do not ask me to figure out your grade. I will discuss with you at any time, your progress and how to do better in the class. If you have any corrections or grade questions about any exam, quiz, or other graded assignment, you must notify me within one calendar week after the assignment is returned to the class. No adjustments in grades will be made after this time. I reserve the right to add new assignments. I also reserve the right to create grading policies to cope with atypical situations.

THE DETAILS REGARDING EVALUATION: All work is to be done by yourself and submitted individually

EXAMS will be 50 multiple choice or fill in the blank questions with each question worth 2 points. I will post a study guide that will have test type questions on it. The questions on each exam will come from the study guide. The study guide will not have the answers. You must find the answers in the text or in my notes. On exam days, I will make each exam available by 12 AM Pacific time and it must be completed typically by the next day by 11:55 PM, Pacific Time Zone (USA). You will have at least a two-day window in which to take the exam. The exam will be timed. No late exams permitted except for health or legal situations or emergencies. If technical problems occur such as computer or Internet connection failure, you must call me immediately at 530-242-2323. I reserve the right to deliver any exam to any student in a paper-pencil format in a proctored environment.

Exam Dates: Exam 1 – Sept. 16-28; Exam 2 – Oct. 14-16; Exam 3 – Nov. 10-14; Exam 4 – Dec. 11-13

QUIZZES will be multiple choice, fill in the blank, submitting an assignment consisting of a list of at home observations, and one discussion that will involve and Internet search. Most of the quizzes will cover material directly from the worksheets which I provide online. **BE SURE TO DO AND UNDERSTAND THE WORKSHEET THAT THE QUIZ COVERS.** Be sure to use my notes to complete the worksheets. If you don't, ask me a question. Quizzes will be available at 12 AM Pacific time and it must be completed by 11:55 PM on the due day on the Pacific Time Zone (USA). Typically there will be a two day window to take a quiz. No late or make-up quizzes permitted with no exceptions other than health or legal situations or emergencies. You will be required to take a

syllabus quiz to make sure that the “real” quizzes cause you no technical problems and to demonstrate that you have read this document. The syllabus quiz must be passed with 100% or you will not be allowed to continue in the class. For the syllabus quiz, you will get 4 tries. For all other quizzes you will get only 1 attempt.

CLASSROOM DISCUSSIONS: Start and due will be posted on the class calendar and on the links to them. They will involve your thoughts on various more open-ended questions and topics. For topics and due dates check the schedule in this syllabus or the class calendar on Shasta College Online. For each discussion topic you are required to write one or more paragraphs to explain your views. Your writing should be college level, not text messages or tweets. I will evaluate them based on the following rubric: High quality (10 points) – discussion is accurate, organized, well thought through, and presented cogently. It includes facts to support ideas and opinions. The writing is grammatically correct. Medium quality (7 points) – discussion is insightful but is missing one item of a high quality discussion. Needs Improvement (5 points or less) – is inaccurate or is missing two or more of the characteristics of a high quality discussion. Your first discussion will not be evaluated but is required to make sure that you can post discussions on the discussion board. The topic will be to tell the class about you. Please post your discussions on the topic which you addressing. Check your grades on Canvas to see your grades on the discussions. The grades will typically be posted within a week of the due date of the replies.

Discussion replies will also be posted on the discussion board and must meet the deadline posted on the calendar. You will need to make a brief response of at least one or two sentences to two of your classmates’ posted discussions. They will be graded as satisfactory (2 points) or unsatisfactory (0 points). Satisfactory replies will show that you have read the original discussion and will comment directly on items in the original discussion. Finally you will be required to complete a brief survey about each discussion. Completion is worth one point but if you do not complete the survey, you get zero points for the entire discussion! Please e-mail me if you have any concerns about the way your discussions have been evaluated.

There will also be two other discussion boards available to you throughout the class. One is for general discussions between you and your classmates. Another discussion board will be dedicated to questions that you might have that you would like me to address

Length of discussion is not the most important factor in determining quality. But a high quality discussion must be at least a 4-sentence paragraph. **ETIQUETTE IS IMPORTANT. RUDENESS, BIGOTRY, AND PERSONAL ATTACKS WILL NOT BE TOLERATED.** Any such displays will cause you to be dropped from the class at my discretion. Disagreement on issues is fine and I encourage it, but disagree with RESPECT FOR OTHERS’ OPINIONS! Feel free to use emojis.

OPTIONAL QUIZZES will follow the same procedure as regular quizzes. They count as extra credit only and cannot hurt your grade. They are algebra based and you will need a scientific calculator to take them. More information is on Canvas.

CHEATING is the unauthorized giving or getting of answers to quizzes or exams or having someone else take exams, take quizzes or write discussions for you. All work is to be done individually. It is not fair to you, your classmates, or to me. In life all you really own is your personal integrity. Please for your own peace of mind, do not throw away your integrity for a grade in a course. That would be pathetic. **DON’T DO IT!!** . If you cheat, you will receive a 0 for the work involved and a penalty of a 150-point deduction from your final course grade. All work is to be completed by you individually. No copying or group work unless explicitly stated. **BY ENROLLING IN THIS CLASS, YOU AGREE NOT TO CHEAT BY OATH ON YOUR RELIGIOUS, SPIRITUAL, OR PHILOSOPHICAL BELIEFS!**

ERRORS, OMISSIONS, or CORRECTIONS on all graded exams, quizzes, and discussions must be submitted to me via e-mail **NO LATER THAN ONE WEEK AFTER THE DUE DATE.** You can see the correct answers to any exam or quiz by clicking on any exam/quiz that has been graded. Exams and quizzes will be graded by the day after the availability period ends.

MY RESPONSIBILITIES

I will provide you with interesting information to you and be available to answer your questions. I will help you hone your understanding of how the world works from a chemical perspective. I will be available for consultation on the phone during office hours, by e-mail from Monday to Friday, and by chat room when available. I am online throughout the day on Mondays through Fridays and check the class regularly. On these days you will receive a reply usually within hours and definitely within 24 hours. After Friday at 1PM through Sunday night, I am online at various times, so I may not respond to communications until Sunday night or Monday morning. **Bottom line: I will help you to achieve the best grade that you chose to achieve.** Finally if something goes wrong, **NO FREAKING OUT!!!** Stay calm and just send me the details and we will figure things out.

YOUR ROLE

STAY ON TOP OF THE CLASS! You must read the book, read the notes, complete assignments, and participate in the class discussions. Log onto the class Shasta College Online EVERYDAY and **check the calendar!** Click on calendar dates for more information.. You need to be self-motivated and disciplined to work on your own to complete assignments. You need to work with

your classmates on-line to facilitate your learning by using the discussion board and the chat rooms in Shasta College Online. Studies show that students who study in groups typically perform better than students who do not work in groups. Of course no freaking out!

ATTENDANCE: If you do not log onto the Shasta College Online page for 5 consecutive school days without notifying me, I reserve the right to make the course non-accessible to you. I DO NOT FORMALLY DROP STUDENTS FROM THE CLASS. IN ALL CASES YOU MUST DROP THE CLASS YOURSELF THROUGH THE REGISTRAR'S OFFICE!!

IMPORTANT!!! USING THE SHASTA COLLEGE ONLINE PROGRAM (Canvas): pay close attention!!!

Learn how to use the Shasta College Online program. Read the Canvas guide under the help link. Click on everything to see what it does, you cannot hurt the program.

Overview of Course Organization on the Shasta College Online program

I organize the course using folders, not by weeks. When you enter the course the folders will be collapsed. All you will see is a folder icon. Click on the icon and the folder will expand to show you the contents. The following are folders in the course:

Cliff's notes: Here are my course notes in PDF format. You will need to download Adobe Acrobat reader. It is free. There are links on my various homepages. I do not provide notes for all the chapters. The later chapters are very complete and well written. I have provided notes for many of the more "nitty-gritty" chemistry in the early chapters. PLEASE USE THESE! I have omitted much material from the early chapters and have included bits and pieces of information not in the text. You will save yourself time and grief if you use my notes and the text being careful to omit material that I have noted on the schedule and have not included in my notes. I have removed most of the gnarly math and made them part of optional extra credit quizzes

Exam study guides: These contain about 200 questions for each exam. You have to find the answers in my notes or in the text. Each exam will have 50 questions directly off the study guide. Some answers are directly in my notes or the text. Others have to be figured out using the principles that are covered. If you have problems finding the answers, you can ask me. I will not give you the answer, but I will point you in the right direction. Do not wait until the day before the exam to work on the study guides. That is a recipe for failure. ☹

Worksheets and answer sheets: I have provided practice worksheets and answer sheets to help you practice and learn some of the nuts and bolts of chemistry. Each worksheet covers a set of principles that I have covered in my notes. About half of the quiz questions come straight off these sheets. The remainder covers the same exact principles. You do not have to hand them in, they are just for practice.

Quizzes/assignments: Click on the quiz that is available to take it. Once you open a quiz, you must finish it at that time. For each question you must save your answer and then when finished you must hit submit to submit the quiz. One day after the quiz is over; you may view your corrected submission, by clicking on the quiz again and then clicking on submission. There is a two day window to take quizzes. For assignments and discussion, follow the directions EXACTLY. There is a window of a week or more to complete these. Finally there are 3 optional extra credit quizzes that involve somewhat involved mathematical calculations. Your grade is based on total earned points, so taking these cannot hurt your grade. There are notes covering the material for these quizzes and they have an extended window to take them.

Graded discussions: Follow the directions for each discussion. You are to make an initial post and then later on reply to two or more of your classmates' posts.

100 point exams: Click on the exam that is available to take it. Once you open an exam, you must finish it at that time. For each question you must save your answer and then when finished you must hit submit to submit the exam. One day after the exam is over; you may view your corrected submission, by clicking on the exam again and then clicking on submission. There is a two or three day window to take exams.

CLASS COMMUNICATIONS

Use the Shasta College Online Canvas program for class communication. One discussion board will be for general course questions use the "Ask Cliff questions here" discussion board so everyone can benefit. Most course communication are made using the Canvas mail, unless there is a problem or emergency. The discussion forums are public. If there is a personal issue or emergency, send me an e-mail using Canvas. If Canvas is not functioning then send me an e-mail to me at cgottlieb@shastacollege.edu and put CHEM 10 as the subject. Do not use my general e-mail for non-emergency situations. !!!IMPORTANT!!!! MAKE SURE YOUR CURRENT E-MAIL ADDRESS IS ON FILE AT MY SHASTA. Classmates can communicate with each other by class discussion board.

IMPORTANT!!!! Using Canvas e-mail: USE THE INBOX LINK TO SEND ME E-MAIL!!! Here is how. After you click on the inbox, at the top middle of the page you will see a icon with a on a sheet of paper. Click on it and choose Chem 10. At the far right of the "To:" Box you will see a person icon. Click it and choose your recipient. Type the subject, your message and hit send. NOTE: The help link also has a way to send an e-mail to your instructor. That is I!! :):). PLEASE DON'T USE THE HELP LINK TO SEND E-MAIL.

I will do everything I can to help you succeed in this course!! You just have to ask!! No Freaking Out!!

OTHER RESOURCES

Science Learning Center. It has tutors and other resources available if you are on campus. Information on page 7.

Disabled Student Programs & Services (DSPS) will provide resources for students with disabilities. They will also test students for learning disabilities. 530-242-7790. www.shastacollege.edu/student-services/dsps

NON-DISCRIMINATION STATEMENT

The Shasta-Tehama Trinity Joint Community College District ("Shasta College"), in accordance with applicable Federal and State Law, does not discriminate on the basis of race, color, national origin, sex, religious preference, age, disability (physical and mental), pregnancy (including pregnancy, childbirth, and medical conditions related to pregnancy or childbirth), gender identity, sexual orientation, genetics, military or veteran status or any other characteristic protected by applicable law in admission and access to, or treatment in employment, educational programs or activities at any of its campuses. Shasta College also prohibits harassment on any of these bases, including sexual harassment, as well as sexual assault, domestic violence, dating violence, and stalking. Inquiries regarding equal opportunity and non-discrimination may be directed to:

Laura Cyphers Benson, Associate Vice President of Human Resources, (530) 242-7649, lbenson@shastacollege.edu

Sandra Hamilton Slane, Associate Dean of Students, (530) 242-7799, sslane@shastacollege.edu

QUESTIONS: If you have questions, please ask! I am here to help you.

COURSE SCHEDULE, brief version. **Remember NO FREAKING OUT!!! ☺**

Week starting	Chapters	Week starting	Chapters
8/15	1 & 2	10/17	Exam 2 & 13
8/22	3 & 4	10/24	13 & 14
8/29	4 & 5	10/31	15 & 16
9/6	5 & 6	11/7	17 & Exam 3
9/12	6 & Exam 1	11/14	Exam 3 & 18
9/19	7 & 8	11/21	18 & 19
9/26	9 & 10	11/28	20 & 21
10/3	10 & 11	12/5	21 & 22
10/10	12 & Exam 2	12/12	22 & Exam 4

With reasonable notice this schedule may be changed at the instructor's discretion.

Tentative Daily Schedule Chem 10 Internet F-15

Please note that the dates are day/month/year. There is this schedule in calendar format on the Shasta College Online program

15/8/2016, Practice Discussion Post Introduce yourself,

15/8/2016, Start Chapt 1 text & notes,

15/8/2016, Take practice syllabus quiz Click on the quiz icon or on the word quizzes on the course menu to the left. Then click on the practice syllabus quiz. Take it until you get 100%. You get four tries This is the only quiz that you will get to take more than once.

15/8/2016, Start element worksheet,

16/8/2016, Start 15 point Discussion 1: Should DHMO be banned? First post due 8-22. Two replies to classmates due 8-24,

16/8/2016, Start element worksheet,

18/8/2016, Syllabus quiz due,

18/8/2016, Start chapt 2 text & notes,

19/8/2016, Practice Discussion-Introduction due,

19/8/2016, Quiz 1 on first 30 elements I will give you 5 names and you give symbol and then I give you 5 symbols and you give me names. Spelling and capitalization for symbols count,

21/8/2016, Start Chapt 3 text & notes,

22/8/2016, Disc 1 due,

24/8/2016, Disc 1 Two replies to classmates and survey due,

24/8/2016, Quiz 2 covers isotope worksheet. Due 8-25,

25/8/2016, Start Chapt 4 text & notes. Omit section 4.11. Be sure to follow my notes especially sections 4.10 and 4.12,

26/8/2016, Quiz 3 covers atomic and electron structure worksheet. Due 8-27,

30/8/2016, Quiz 4 covers periodic table worksheet. Due 8-31,

1/9/2016, Quiz 5 covers ion worksheet. Due 9-3,

6/9/2016, Quiz 6 covers ionic compound worksheet. Due 9-7,

9/9/2016, Quiz 7 covers Dot Structure worksheet. Due 9-11,

11/9/2016, Start Chapt 5 Omit sections 5.2 – 5.4 and molarity in section 5.5. This material will be on the optional extra credit quizzes.

For all other sections, follow my notes,

13/9/2016, Quiz 8 due covers balancing equations worksheet. Due 9-14,

13/9/2016, Start Chapt 6 text & notes. Omit molar volume (p 167) and entire section 6.7. Be sure to follow my notes,
16/9/2016, Exam 1 available and covers chapters 1- 6. 50 questions from the study guide. You can use the class periodic table and ion chart only. You have one try and 50 minutes. Good thinking,
18/9/2016, Exam 1 due and must be submitted by 11:55 PM Pacific time,
19/9/2016, Start Chapt 7 text and notes No pH calculations (these are on an optional extra credit quiz) and follow my notes,
19/9/2016, Start 15 point Discussion 2: Choose your favorite element. Give the reason for your choice. Then find its name in 5 different languages other than English, one language from each continent except Antarctica: Europe, Asia, Africa, North America, South America and Australia/Oceania. Finally give one interesting fact about it. First post due 9-25. 2 replies to classmates due 9-27,
20/9/2016, Optional quiz 1 & 2 available. Due 11-28. Optional quiz 1 is on converting grams and number of atoms to moles and vice versa and simple mole to mole stoichiometry. Optional quiz 2 is on mole to gram and gram to gram stoichiometry. You allowed your periodic table and a scientific calculator only,
22/9/2016, Start Chapt 8 text and notes,
25/9/2016, Start Chapt 9 text and notes,
25/9/2016, Discussion 2 first post due,
27/9/2016, Discussion 2 Two replies to classmates and survey due,
28/9/2016, Start Chapt 10 text and notes,
4/10/2016, Start Chapt 11 text and notes,
5/10/2016, Start on Assignments 1, 2 & 3 due 11-14. Assignment 1 is a list of inorganic compounds from reading ingredient (not nutritional!) labels from common household products. Assignment 2 is a list of organic compounds classified by functional group by reading ingredient (not nutritional!) labels from common household products. Assignment 3 is a list of recycling codes and polymer names and structures from plastic materials in your house,
10/10/2016, Quiz 9 due covers nuclear decay. Due 10-11,
11/10/2016, Start Chapt 12 text and notes,
14/10/2016, Exam 2 available and covers chapters 7 - 12,
16/10/2016, Exam 2 due,
17/10/2016, Start Chapt 13 text and notes,
17/10/2016, Start Discussion 3 Favorite scientist or other cultures practice of traditional medicine or contributions to science. First post due 10-24. Two replies due 10-27,
22/10/2016, Optional quiz 3 available, due 11/28. This quiz covers calculating pH from molarity and molarity from pH. It also covers calculations involving the ideal gas law ($PV=nRT$). You are allowed your periodic table and calculator only
23/10/2016, Start Chapt 14 text and notes,
24/10/2016, Discussion 3 first post due,
28/10/2016, Discussion 3 Two replies to classmates and survey due,
29/10/2016, Start Chapt 15,
31/10/2016, Start discussion 4 Your impact on earth and your actions First post due 11-6. Two replies due 11-9,
4/11/2016, Discussion 4 First post due,
4/11/2016, Start Chapt 16,
7/11/2016, Discussion 4 Two replies to classmates and survey due,
7/11/2016, Start chapter 17,
9/11/2016, Start discussion 5 Genetically Modified Organisms and Food. First post due 11-15. Two replies due 11-17,
10/11/2016, Exam 3 available Covers chapters 13-17,
11/11/2016, Veterans Day holiday,
14/11/2016, Exam 3 due,
14/10/2016, Assignments 1, 2 & 3 due
15/11/2016, Discussion 5 First post due,
15/11/2016, Start Chapt 18,
17/11/2016, Discussion 5 Two replies to classmates and survey due,
18/11/2016, Start Discussion 6. Seek, find and share. Check this now! First post due 11-28. Two replies due 11-30,
18/11/2016, Start Chapt 19,
28/11/2016, Discussion 6 First post due,
28/11/2016, Start chapt 20,
28/11/2016, Optional quizzes 1, 2 & 3 due,
30/11/2016, Discussion 6 Two replies to classmates and survey due,
1/12/2016, Start discussion 7: Chemistry's impact on your personal life. First post due 12-5. Two replies due 12-7,
2/12/2016, Start Chapt 21,
5/12/2016, Discussion 7 First post due,
7/12/2016, Discussion 7 Two replies to classmates and survey due,
7/12/2016, Start Chapt 22,
8/12/2016, Start Discussion 8. First post due 12-13. Two replies due 12-15,
11/12/2016, Discussion 8 First post due,
11/12/2016, Exam 4 available. Covers chapters 18 - 22,

13/12/2016, Discussion 8 Two replies to classmates and survey due,

13/12/2016, Exam 4 due,

14/12/2016, You're done :) Happy Holidays!!,

COURSE OBJECTIVES:

1. Apply scientific reasoning in contexts involving chemistry and society.
2. Discriminate between factual and fallacious claims in media and the internet involving chemistry.
3. Find accurate information on chemicals and chemistry.
4. Use chemical theories, principles, concepts and models to analyze socio-cultural phenomena involving chemistry and society.
5. Critique benefits and limitations of applying the scientific method to problems in the analysis of societal phenomena involving chemistry.
6. Independently explore contemporary topics in which chemistry has a significant role.
7. Solve simple chemical calculation problems

SCIENCE LEARNING CENTER
Redding Campus, Life Science Building - 1600
Room 1626 530.242.2325
www.shastacollege.edu/ScienceLearningCenter

The Science Learning Center provides a supportive learning environment where students can realize their educational goals. The Science Learning Center offers a comfortable study environment where students can study individually or in small groups. In addition, free tutoring and a variety of other resources are available to assist students enrolled in science courses. Resources are available for use in the Science Learning Center. A driver's license or Shasta College ID card is required to check-out most resources.

Free Tutoring: Free Tutoring is offered by students who have successfully completed the courses they tutor with a "B" or better grade. In addition to clarifying any confusing concepts, tutors can recommend good study techniques and organizational skills to help you maximize your study time. A tutoring schedule is posted in the Science Learning Center.

Additional Resources:

- **Text books:** Current text books, as well as solution manuals are available for most courses. In addition, various references books are available.
- **Calculators:** Basic scientific calculators and graphing calculators are available for use.
- **Microscopes and slides:** Microscopes and slides are available for reviewing some lab material.
- **CD's/DVD's:** CD's/DVD's are available on various science topics.
- **Computers:** Four internet connected computers with Microsoft Office suite installed are available for use. In addition, two laptop computers are available for in room use. Printing is available for 10 cents/page.
- **Copy Machine:** A copy machine is available in the Science Learning Center. Copies are 10 cents/page.
- **Office Supplies:** Various office supplies and office equipment are available for use (paper cutter, staplers, scissors, tape, hole puncher, markers, colored pencils, etc.).
- **Study Room:** A small study room is available for quiet study.

The Science Learning Center is a friendly, helpful, encouraging environment, which could become your home away from home. Stop by and check out the Science Learning Center.

ADDING A CLASS

Students may add a full-term class through the fourth week of the term.* After the first two class meetings, approval of the instructor is required to add the class, which includes both the signature of the instructor and the first date of attendance. **IT IS THE STUDENT'S RESPONSIBILITY** to pick up the form from the Admissions and Records Office and take it to the instructor for approval. The student must then return the form to the Admissions and Records Office or Extended Education Center for processing before the add is finalized.

DROPPING A CLASS WITHOUT RECORD

Students may drop a class, and have no notation appear on their transcripts, through the fourth week* or 30% of the term for classes less than a semester in length. **IT IS THE STUDENT'S RESPONSIBILITY TO DROP CLASS (ES)**. The necessary forms are available from Admissions and Records, Extended Education Centers, or by mail. If a student intends to drop a class and stops attending but fails to file the necessary forms, a failing letter grade may be assigned by the instructor.

WITHDRAWING FROM A CLASS WITH A "W" GRADE

Students may withdraw from a class after the official "drop" date and up through the fourteenth week or 75% of the term for classes less than a semester in length. The notation "W's" will appear on the student's transcript and will not be used in calculations of grade point average. Excessive "W" shall, however, be used as factors in probation and dismissal procedures. **IT IS THE STUDENT'S RESPONSIBILITY TO OBTAIN FORMS AND SUBMIT THE NECESSARY PAPERWORK TO WITHDRAW FROM A CLASS**. Forms are available from Admissions and Records, Extended Education Centers, or by mail. Students who have not dropped or withdrawn from a class before the end of the fourteenth week or 75% of the term will be assigned a course grade.

ATTENDANCE

Students are expected to attend all class meetings. A student who fails to attend the first meeting of a course without notifying the instructor may be dropped from the class. In addition, an instructor may drop a student during the first 30% of the term for excessive absences. Nevertheless, **IT IS ALWAYS THE STUDENT'S RESPONSIBILITY TO OFFICIALLY DROP OR WITHDRAW** from the class. Students who fail to file the necessary forms, even though they stop attending class, will be assigned a course grade.