

# Chemistry 10: Chemistry for the Liberal Arts Internet First Day Handout and Syllabus

## COURSE INSTRUCTOR:

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web pages: <http://www.cliffschemistry.com> and the class page

## CATALOGUE COURSE DESCRIPTION:

A non-mathematical introduction to the major concepts of chemistry 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. This course will meet the general education requirement for a laboratory science if it is taken with CHEM 11. Chem 11 can be taken after Chem 10 is taken.

## REQUIRED TEXTS:

The Extraordinary Chemistry of Ordinary Things, 4<sup>th</sup> ed. by Carl Snyder ISBN 0-471-41575-8 Available at the Shasta College Bookstore or any on-line book retailer. You do not need any DVD or virtual lab with the text.

## 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 immediately.

## INTERNET DELIVERY ISSUES:

This is an internet course. Unless unusual situations occur, there is no face to face component to the course.

This version of this course will be delivered over the internet using a program called the Shasta College Online (Angel) program. This delivery system allows students the freedom to set their own schedule for completing the coursework. **You must be comfortable with working on computers and using the internet. If you are not, do not enroll in this course. Do not expect significant technical computer assistance from me or Shasta College.** 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 everyday, 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 or more rigorous than the face to face version. **DO NOT FALL BEHIND!!**

Learning styles: If your main learning style is audio/listening, an internet course is probably not for you unless you read the notes and text and record that on your mp3 player. Go to <http://www.vark-learn.com> to take a short learning style questionnaire to find your primary learning style(s).

**Course schedule, timelines, and deadlines can be viewed in this syllabus and on the course calendar. I will try to accommodate your summer schedule; however, such accommodations are limited. If you cannot meet these conditions and timelines then you should not enroll in this internet course!**

## 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. Four exams are 100 points each. There is no cumulative final   |
| 2. Quizzes and assignments will count 10 points each. Every twelve assignments are worth 100 final grade points. The sum of each twelve assignments will count as your grade for this section. It is possible to earn up to 120 points out of 100 points possible This is like having the opportunity to earn 20 "extra credit" points. |

The "curve" is: A = 90-100%; B = 80-89%; C = 70-79%; D = 60-69%; F <60% of the total course points.

Total course points = 500, therefore: A ≥ 450 ; B = 400 – 449; C = 350 – 399; D = 300 – 349; F < 299.

I reserve the right to add new assignments. I also reserve the right to create grading policies to cope with atypical situations.

**Keep track of your own total points and grade which will be available only to you on the Shasta College Online program. No make-up or LATE exams, quizzes, or homework are allowed except for family, health or legal situations or emergencies. You must e-mail me on the day of the exam to notify me of**

**your emergency. Do not call me at home!! You must notify me e-mail if you have a non-emergency family, medical or legal situation at least one week before the quiz/exam. Be prepared to FAX me documentation to verify your emergency. If you have legal or medical appointments that will interfere with a quiz or an exam, you must notify at least 5 days in advance to possibly make other arrangements.** Given reasonable notification, I will try to accommodate your summer schedule, however, such accommodations may be limited.

### THE DETAILS REGARDING EVALUATION

EXAMS will be 50 multiple choice with each question worth 2 points. I will post a study guide that will have test type questions on it. All of 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 5 AM Pacific time and it must be completed on the due date by 11:55 PM, Pacific Time Zone (USA). You will have a 2 or 3 day window in which to take the exam. The exam will be timed on a secure password protected website. If you go over the time limit, 1 point per minute over will be deducted from your grade. 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 530-225-4647. Do not call me at home!!! I reserve the right to deliver any exam to any student in a paper-pencil format in a proctored environment.

**Exam Dates: Exam 1: 6/18-20; Exam 2: 6/29-6/30; Exam 3: 7/10 – 7/12; Exam 4: 7/21 – 7/22**

QUIZZES/ASSIGNMENTS/ will be multiple choice, fill in the blank, or submitting a list of at home observations. Each quiz is worth 10 points. The quizzes will cover material from the worksheets which I provide on the web. As with exams, quizzes will be posted by 5 AM Pacific time and it must be completed by 11:55 on the due date on the Pacific Time Zone (USA). No late or make-up quizzes permitted with no exceptions other than health or legal situations or emergencies. If technical problems occur, call me immediately. You will be required to take a practice quiz to make sure that you the “real” quizzes cause you no technical problems. There also be one discussion that will count as a 10 points quiz.

DISCUSSION BOARDS: There will be two discussion boards available to you throughout the class. One is for general discussions between you and your classmates. I will generally not look at these discussions. Another discussion board will be dedicated to questions that you might have that you would like me to address. I will check this board regularly. One other discussion board will be dedicated to introducing yourself to the class. Finally one discussion will count as a 10 point quiz.

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 completed by you individually. All submitted exams, quizzes, assignments, and discussions are to be completed individually. No group work unless explicitly stated although I encourage study groups to work on finding the answers to the study guides. 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!!** The penalty for cheating is receiving a 0 on the work involved plus a 150 point penalty deduction from your grade. **BY ENROLLING IN THIS CLASS, YOU AGREE NOT TO CHEAT BASED ON YOUR RELIGIOUS-PHILOSOPHICAL-ETHICAL WORD OF HONOR!**

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.** Check your grades regularly

### 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 by e-mail from Monday to Friday, and by discussion board. I will help you to achieve the best grade that you chose to achieve. I hope that you choose to achieve an “A”.

### YOUR ROLE

You must read the book, read the notes and complete assignments on time! It is best to log onto the class EVERYDAY! If you are a slacker, **DO NOT ENROLL.** 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. Studies show that students who study in groups typically perform better than students who do not work in groups so use the discussion board and chat rooms to form study groups.. **I DO NOT FORMALLY DROP STUDENTS FROM THE CLASS. IN ALL CASES YOU MUST DROP THE CLASS YOURSELF THROUGH THE REGISTRAR'S OFFICE!!**

## USING THE SHASTA COLLEGE ONLINE PROGRAM:

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

Brief overview of on the Chem 10 course menu on the top of the page on the Shasta College Online program.

Calendar: This will show you due dates for everything in the course. Click on the date to find out more information for that day.

Lessons: This contains the material for the course and upon clicking on it you will find

Chem 10 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.

Chem 10 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. The quiz questions typically come straight off these sheets. You do not have to hand them in, they are just for practice.

Chem 10 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.

Chem 10 quizzes and exams: Here is where you will find the quizzes and exams. Click on the quiz or exam 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 or exam.

Chem 10 assignments: This is where you find the class assignments. Follow the directions EXACTLY.

Chem 10 discussions: Click on this and you will see 2 topics: one is for you to communicate with your classmates. The other is to ask me questions. Everyone in the class can see everything posted on the discussion board. There may be assigned discussion which will count to your grade

Resources: Here is where you can find help on using the online program.

### Communicate:

E-mail: Here is where you can use the course e-mail program. Please use this program's e-mail for all class communications. Some of you have indicated problems. Norton security may cause problems. Turn it off when using this program and see if it works. The MOST likely problem is the filter setting. Click communicate and click on view inbox. On the upper right side, you see the word Filter with a small horizontal window below it. Make sure that this course shows in the window. Then click compose message, click to, in a pop up window you will see the choices of recipients. Click to highlight one or more, then click on the To> button and you will see those highlighted show up in the box. Click save and you will see the recipients in the To box. Now just type your message and click send.

Discussions: You can also access the discussions here.

Live Chat: This is a live chat room for students who wish to form online study groups.

Reports: Here is where you can see your course participation and grades. To find your grades click on the reports tab, then select grades and click on run. You will also see any comments that I have made.

## CLASS COMMUNICATIONS

USE THE SHASTA COLLEGE ONLINE E-MAIL PROGRAM. You can also contact me by leaving a message at my office phone 530-242-2323 but in the summer I do not check my voice mail regularly. I will communicate with you by individual e-mail, discussion board or class announcements. Classmates will communicate with each other by e-mail or discussion board. In case of emergency you can call me at my office, use the Shasta College Online e-mail, or use my general e-mail address [cgottlieb@shastacollege.edu](mailto:cgottlieb@shastacollege.edu) Please put **internet 10** as your subject if you use my general e-mail in an emergency. **Do not use my general e-mail for non-emergency situations!!!**

## COURSE SCHEDULE

Brief version

Week starting	Chapters	Quizzes	Week starting	Chapters	Assignments Due	Discussion Due
6/7	1, 2, 3	1-4	7/5	14, 15, 16, 17		
6/14	4, 5, 9(p 204, sections 5,7,9-11), Exam 1	5-8	7/13	Exam 3, 18, 19, 20	1,2,3	This link
6/21	6, 7, 21, 8, 10		7/19	22,23, exam 4		
6/28	11, Exam 2, 12, 13					

### Detailed Schedule

day/month/year

07/6/2010, 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%. This is the only quiz that you will get to take more than once.

08/6/2010, Quiz 1 on first 30 elements,

08/6/2010, Start Chapt 1 text & notes,

09/6/2010, Quiz 2 due, Quiz 2 is right off of the atomic and electron structure worksheet,

09/6/2010, Start Chapt text and notes,

10/6/2010, Quiz 3 due, Quiz 3 is off the isotope worksheet,

10/6/2010, Start Chapt 3 text and notes,

11/6/2010, Quiz 4 due, Quiz 4 is on the periodic table worksheet,

11/6/2010, Start Chapt 4 & 5 text & notes,

14/6/2010, Quiz 5 due, Quiz 5 is on the ion worksheet,

15/6/2010, Quiz 6 due, Quiz 6 is on the Dot Structure worksheet,

15/6/2010, Chapt 9, Covers ONLY the balancing equations section page 204 and sections 9.5 9.7 9.9 9.10 9.11 only,

16/6/2010, Quiz 7 due, Quiz 7 is on the nuclear decay worksheet,

18/6/2010, Quiz 8 due, Quiz 8 is on the balancing equations worksheet,

18/6/2010, Exam I available, Exam 1 on chapters 1-5 & 9 will be available starting at 5 AM today until 11 PM tomorrow. 50

questions from the study guide. You can use the class periodic table and ion chart only. You have one try and with 50 minute time limit. Good thinking!!,

20/6/2010, Exam 1 due, Exam 1 must be submitted by 1155 PM,

21/6/2010, Chapt 6,

22/6/2010, Chapt. 7,

23/6/2010, Chapt. 21,

24/6/2010, Start Chapt. 8 Start reading chapter 8 and check out the notes,

25/6/2010, Assignments 1 - 3 are available. Due 7/16,

25/6/2010, Chapt 10,

28/6/2010, Chapt 11,

29/6/2010, Exam II available and covers chapters 6 - 8 & 10 & 11 & 21,

30/6/2010, Exam II due,

01/7/2010, Chapt 12,

02/7/2010, Chapt 13,

06/7/2010, Chapt 14,

07/7/2010, Chapt 15,

08/7/2010, Chapt 16,

09/7/2010, Chapt 17,

10/7/2010, Exam III available and covers chapters 12 - 17,

12/7/2010, Exam III due,

13/7/2010, Chapt 18,

13/7/2010, Discussion that is quiz 9 available,

14/7/2010, Chapt 19,

15/7/2010, Chapt 20,

15/7/2010, Discussion that is quiz 9 due,

16/7/2010, Assignments 1 - 3 due,

19/7/2010, Chapt 22,

20/7/2010, Chapt 23,

21/7/2010, Exam 4 available and covers chapters 18 - 20 & 22 & 23,

22/7/2010, Exam 4 due,

### **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