

Chemistry 113

Chemistry for General Ed.

Instructor: Larry Powell

Office: Phase II (upstairs in Commons Area)

Office Phone: (505)769-4919

E-MAIL: please use WebCT email for primary communication

here's my office email if you need it in a pinch:

larry.powell@clovis.edu



TEXTBOOK: You will not need to purchase a textbook or lab manual for this course. I have provided my lecture notes for the information you will need to know as well as lab instructions, practice problem sets, discussion topics, and pertinent websites. The labs that you will do in this course are all activities that you can do in your home - you will be required to supply the materials for the labs (most of which you may already have around your house, others you may need to purchase, none are expensive or difficult to obtain).

COURSE DESCRIPTION

Chemistry for General Education provides the non-science major with an understanding of basic chemical principles

INSTRUCTIONAL GOALS:

By the end of this course, you should:

1. Have an understanding of the history of chemistry and the development of chemistry as a science
2. Be able to classify matter as either an element, a compound, or a mixture
3. Have the ability to describe the arrangement of the basic subatomic particles and extend that information to differences in the masses, stabilities, and reactivities of elements
4. Be able to use the Periodic Table of elements to distinguish between metals, non-metals, and metalloids, as well as the activities of outer shell electron arrangements
5. Relate the quantitative aspects of compounds, chemical reactions, and stoichiometry
6. Understand what acids, bases, and the pH system are
7. Be able to describe the three broad categories of biochemicals: carbohydrates, lipids,

and proteins

ACADEMIC DISHONESTY

Academic dishonesty is an act by a student to use and/or represent the work of other individuals as that of his or her own production and/or creation. Academic dishonesty is unacceptable within the campus and in this course. Students committing acts of academic dishonesty shall be penalized by the assignment of low or failing grades on assignments and/or for the entire course depending upon the instructor's evaluation of the severity of the dishonest act. Consult the college catalog for more information on the institutional policy on academic dishonesty.

ATTENDANCE

The course delivery system maintains a log each time you enter your online course. Students are required to login at least once a week in order to meet course assignment deadlines and to receive additional instructor announcements. Students who do not login and who do not communicate with their instructor either through email or by phone by the 10th class day may be administratively withdrawn from the class.

LATE WORK

Due dates are assigned to each unit. **No late assignments will be accepted!**

SAFEGUARDS

Back up every piece of work you do on disk or flash drive, and make a hard copy. If you experience computer difficulties, you are responsible for solving your own technical problems. Heavy Internet use occurs during the evening hours of 8-10 p.m. You might want to consider logging on at other times if possible.

DEADLINES

Odd things happen in cyberspace: emails get lost; servers disconnect temporarily; logins are impossible, etc. Do not wait for the last moments to complete your assignments. Allow time to meet deadlines. Reply and check for replies on every email sent and received. Be sure to check the message centers each time you logon, for important messages.

HOW TO PROCEED THROUGH THIS COURSE:

This course is divided into eleven units. I suggest that you briefly visit all of the units before you begin the course. This will assist you in creating a "cognitive map" of the types of assignments required for each unit. The first thing you should do each week is to go to the *Course Unit* for that week. Normally, all material will be posted with the Unit with accompanying reading materials. Occasionally, other materials may be added for clarification of concepts. You should proceed through the units in the order they are presented. Deadlines are posted within the units and are posted on the course calendar.

Good Study Habits:

If you have never taken a distance education course before, an essential ingredient to passing an online course, is to have good study habits. Working on your own in a distance education course means that greater responsibility is placed on the student, for successful completion of the course. The student who is motivated, self-disciplined, and has good organizational skills tends to develop the study habits essential for normal success in the course.

While it is enjoyable to have the flexibility of scheduling your course study time, some students never develop a successful study routine. This pattern can place the student in a position that may result in non-completion of deadlines or "cramming" for major assignments. Try to consider the following items when developing good study habits in an online course:

Set aside a certain day or time to work on your course. Try to do this early in the week, so you have time to email your instructor for clarification. Review exercises and projects you may have been assigned. Get into the habit of checking the Announcement section and Unit section of the course in order to get a mental picture of what you will need to do during the week.

Do not wait until the last day before a deadline, to study and complete assignments. Remember that even though you are not sitting in a classroom for four hours, you will be using the four hours of "classroom" time to read and complete assignments. If you wait until the last minute, you will be stressed when trying to complete the work in an insufficient amount of time. An online class does not mean less time; often it requires more time since you are responsible for reading and completing the work on your own. ***NO LATE ASSIGNMENTS WILL BE ACCEPTED!***

NETIQUETTE

Netiquette is using good manners in cyberspace. Since most of the communication over the net is by way of text, be sure your written words are not offensive to the receiver. Remember email is a document, and can be read by someone other than the intended audience. "Flaming" (making personal attacks on a person) is also unacceptable, and will follow the same discipline actions found in the [student handbook](#), including administrative withdrawal at the instructor's discretion. Whether you are in a chat room, writing an email or posting to a discussion area, remember to use proper etiquette in consideration of others. If you would like to read more on the subject of netiquette, use the link below.

<http://www.iwillfollow.com/email.htm>

<http://www.albion.com/netiquette/corerules.html>

GRADING POLICY

Lab Activities	30 % of the final grade
Discussions	10 % of the final grade
Unit quizzes	10 % of the final grade
Major Exams	50% of the final grade

COURSE UNITS AND ASSIGNMENTS

NO LATE ASSIGNMENTS WILL BE ACCEPTED!

Unit

Assignments

Unit 1
Introduction to
Chemistry

Read and Study Unit 1 Notes!

Complete: Lab Activity

Complete: Discussion

Complete: Unit 1 Quiz

Unit #1 Due by June 7 (Midnight MST)

Unit 2
Scientific Method,
Metric System

Read and Study Unit 2 Notes!

Complete: Lab Activity

Complete: Discussion

Complete: Unit 2 Quiz

Unit #2 Due by June 10 (Midnight MST)

First Major Test Over Units 1 and 2 Due No Later Than June 12 (Midnight MST)

Unit 3
Atomic Models

Read and Study Unit 3 Notes!

Complete: Lab Activity

Complete: Unit 3 Quiz

Unit #3 Due by June 14 (Midnight MST)

Unit 4
Electron
Arrangement

Read and Study Unit 4 Notes!

Complete: Lab Activity

Complete: Unit 4 Quiz

**Please note: last
chance to take the**

two element
quizzes!

Unit #4 Due by June 17 (Midnight MST)

Second Major Test Over Units 3 and 4 Due No Later Than June 19 (Midnight MST)

Unit 5 Periodic
Table

Read and Study Unit 5 Notes!

Complete: Lab Activity

Complete: Discussion

Complete: Unit 5 Quiz

Unit #5 Due by June 21 (Midnight MST)

Unit 6
Ionic Compounds

Read and Study Unit 6 Notes!

Complete: Lab Activity

Complete: Unit 6 Quiz

Unit #6 Due by June 28 (Midnight MST)

Unit 7
Formula Mass
and Percent
Composition

Read and Study Unit 7 Notes!

Complete: Lab Activity

Complete: Unit 7 Quiz

Unit #7 Due by July 1 (Midnight MST)

Third Major Test Over Units 5, 6, 7 Due No Later Than July 3 (Midnight MST)

Unit 8
Types of
Reactions and
Balancing
Equations

Read and Study Unit 8 Notes!

Complete: Lab Activity

Complete: Discussion

Complete: Unit 8 Quiz

Unit #8 Due by July 8 (Midnight MST)

Unit 9 Predicting
Products
and Stoichiometry

Read and Study Unit 9 Notes!

Complete: Lab Activity

Complete: Unit 9 Quiz

Unit #9 Due by July 12 (Midnight MST)

Fourth Major Test over Units 8 and 9 Due No Later Than July 15 (Midnight MST)

Unit 10 Acids,
Bases, pH

Read and Study Unit 10 Notes!

Complete: Lab Activity

Complete: Discussion

Complete: Unit 10 Quiz

Unit #10 Due by July 19 (Midnight MST)

Unit 11
Biochemistry

Read and Study Unit 11 Notes!

Complete: Lab Activity

Complete: Unit 11 Quiz

Unit #11 Due by July 22 (Midnight MST)

Please note: Unit 11, Fifth Major Test, and Assessment Post-test are all due no later than July 22 (Midnight MST)

Fifth Major Test over Units 10 and 11 Due No Later Than July 22 (Midnight MST)

Assessment Post-test Due No Later Than July 22 (Midnight MST)

[Return To eCampus](#)

[Copyright © 2005 Clovis Community College](#)

[E-mail: webmaster@clovis.edu](mailto:webmaster@clovis.edu)

-