

**CHEM 111 FALL 2008**  
**Section 006 9:25 - 10:40 TR**  
**Section 007 10:50 -12:05 TR**  
**SCIC 317**

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**What is a syllabus?** A syllabus is a contract between you and the professor. It tells you what is expected of you and helps you understand what it will take for you to be successful in a course. The syllabus holds you the student accountable to class expectations.

**Catalog Description 111 Principles of Chemistry I (3)**

An introductory course in chemistry emphasizing theoretical aspects and designed primarily for students intending to take one or more additional courses in chemistry. Three lecture hours per week.

*Corequisite: Chemistry 111L.*

**Is this course for you?**

<b>CHEM 111 is for</b>	<b>You can instead take CHEM 101 if you want to</b>
MD DDS ODS Physician's Assistant D.Vet. M. D. Pharm. BS BIOL or BS GEOL BS CHEM or BIOC BS CSCI	Meet the Gen Ed requirements Major in history, business, English, etc. Major in Elementary Education Receive a BA BIOL or BA GEOL Have a career in Allied Health: BSN, PT, OT

Please see the instructor ASAP if you have any questions as to whether this is the proper course for you.

**Corequisite** CHEM 111L is a co-requisite course. You must either be concurrently enrolled in the lab or else have already passed the lab. If either is dropped both must be dropped. The two courses (CHEM 111 & 111L) are graded independently of each other. **The last day to drop with a grade of "W" is Tuesday October 7, 2008.**

**Academic Integrity** One of the core values of the College is *academic integrity*. This course is conducted under the Honor Code of the College of Charleston. The Honor Code more than just a set of rules to be followed for the sake of the rules. The Honor Code exists for the benefit of the institution and more importantly for the benefit of the students. When a student violates the Honor Code, she/he diminishes the academic experience and their personal being. The Honor Code specifically forbids lying, cheating, attempted cheating, stealing, attempted stealing, and plagiarism. Students at the College are bound by honor and by their acceptance of admission to the College and agree to abide by the Code and to report violations. As members of the College community, students are expected to evidence a high standard of personal conduct and to respect the rights of other students, faculty, staff members, community neighbors, and visitors on campus. Students are also expected to adhere to all federal, state, and local laws. Faculty members are required to report violations of the Honor Code or Code of Conduct to the Office of Student Affairs. Conviction of an Honor Code violation in this class will result in the the grade of "XF" for the course. Please consult the department's [Policy on Scientific Integrity](#).

**Attendance Policy** Attendance is expected at all classes. Students are responsible for all information presented in class whether they are present or not. It is imperative that you attend class and also to arrive promptly. It is extremely rude and discourteous to arrive late. If you arrive late for a quiz, test, or the final exam, instructions may not be repeated and you will not receive additional time to complete the assignment. **NO MAKE-UP QUIZZES OR TESTS ARE GIVEN.** It is possible to arrange to take a test or quiz early. Your

lowest quiz/homework grade will be dropped. Your lowest test grade will be replaced by your final exam grade *if* it is higher than your lowest test grade (e.g. if you miss a test it is a zero and in its place will be put the grade for the final exam). If you are a student-athlete or away from class due to documented college-related business an accommodation will be made if arrangements are made prior to the absence.

***After the Drop/Add period any student with a failing average, upon missing a total of 4 recorded absences, will be assigned the grade of "WA" which is equivalent to an "F".***

There are no opportunities for extra credit in this course.

Please note that an [Absence Memorandum](#) from Health Services/Undergraduate Academic Services only verifies your documentation for missing a class. It does not entitle you to make up or be excused from any work, assignment, quiz, or test. You should obtain notes from a classmate, read the associated material in the text, and then come ask questions. If you miss picking up a graded quiz or test you should pick it up from my office as expeditiously as possible.

**Drop/Add** In order to change sections or change courses you must do so no later than 5 p.m. **Monday September 1, 2008**. If you are repeating the lecture or lab and do not need to repeat the corequisite course you must remedy this with the department chair (which just happens to be me) before the close of Drop/Add.

**International Students** Federal regulations mandate that all international students report to the International Office for a "document check" within 10 days of the beginning of the semester. Failure to comply with this mandate will result in automatic termination of a student's visa. The College's Office of [International Education and Programs](#) is located in the Multi-cultural Center at 207 Calhoun Street. Contact the Associate Director, Dr. Gerhard Mack, at 953-7822 if there are any questions.

**Math Competency** Competency at the level of MATH 111 or beyond, which includes algebra and graphing, is assumed. Help with math can be obtained from the [CSL](#). You will need a calculator that can perform logarithmic and exponential functions (~\$15). Bring this calculator to all class meetings.

**Responsibilities** You are responsible for all material covered or assigned in class or assigned electronically. You should check the website regularly for any updates. If no specific reading or homework assignments are made in class you should minimally read ahead at least several sections and attempt the associated in-chapter and end-of-chapter problems.

It is absolutely vital that you keep current in your studies. You need to spend sufficient time between each class to understand and master the material as well as read ahead by at least three sections of the text. The instructor is to communicate expectations, explain the material, and help you to the best of his time and ability. However, the responsibility for learning is upon you, the student.

**Electronics Device Policy** The use of any wireless communication device during a quiz, test, or final exam is prohibited other than to respond to a Cougar Alert announcement will be considered a violation of the Honor Code. Cell phones must be on "silent" ring.

**Email** Email is considered an official method for communication at the College of Charleston. Email accounts are assigned to all students upon acceptance at the College (e.g. your @edisto.cofc.edu account). If a student wishes to have email redirected from their official College-issued account to another email address (e.g., @aol.com, @hotmail.com, @yahoo.com, or any other server other than the official @edisto.cofc.edu), they may do so, but at their own risk. Having email redirected does not absolve the student from the responsibilities associated with official communication sent to his or her College account. The College is not responsible for the handling of email by outside vendors or unofficial servers. A link to instructions on how to forward Edisto email can be found by clicking on Web Mail from the CofC home page. Students are expected to check their College of Charleston official email on a daily basis. Students have the responsibility to recognize that certain communications may be time-critical. "I didn't check my email", error in forwarding email, or email returned to the College with "Mailbox Full" or "User Unknown" are not acceptable excuses for missing official College communications via email.

## Class Objectives

1. To achieve a basic understanding of the composition and structure of matter at the atomic and molecular level
2. To know the names and symbols of all the elements. \*
3. To name inorganic compounds and write correct chemical formulas (IUPAC nomenclature) \*
4. To predict basic and understand chemical reactions; being able to balance chemical equations\*
5. To be able to perform basic chemical calculations, particularly involving stoichiometry (limiting reagent problems)\*
6. To understand energy changes associated with chemical processes (Hess's Law, calorimetry, etc.)
7. Write Lewis structures for molecules and ions, understanding formal charge and resonance.
8. To understand intermolecular forces
9. To appreciate the scientific method and understand its use in the historical development of our understanding of the atom and the arrangement of the periodic table.

Once subjects marked with an asterisk (\*) are covered on a test, they may also appear on all subsequent tests.

**General Education Objectives** The sequence CHEM 111/112 and associated labs satisfy the 8 hour natural science requirement of the College. This sequence enables students

1. To demonstrate an understanding of some of the fundamental scientific concepts and theories about the natural world;
2. To acquire knowledge of the evidence, ideas and models that scientists use to make judgments about the natural world;
3. To acquire knowledge about science and technology as they shape contemporary experience and values, and demonstrate an appreciation of the historical and contemporary impact of science on daily life;
4. To develop the skills of logical and critical thinking necessary to explore how the natural world works;
5. To demonstrate an appreciation and understanding of the scientific method of inquiry; understand that scientific knowledge is based on the outcome of testing of hypotheses and theories that are under constant scrutiny and subject to revision based on new observations, and not just a collection of facts; and
6. To demonstrate an ability to distinguish between science and technology and appreciate the capabilities and limitations of science.

Office Hours:	M	2:00 - 4:00 pm *
SCIC 314/316	T	2:00 – 4:30 pm *
	W	10:00 a.m. – 12: noon *
	R	12:30 – 2:00 pm *
	F	11:00 am – 12:00 noon *

You can access my office via the department office in SCIC 316 or via SCIC 314.

\* - Please note, as department chair I am often called to meetings so it is usually best to call or email ahead of time.

**Homework** You are the person ultimately responsible for your performance in the course. There is homework associated with every class meeting this semester. Whether announced or not, minimally you should read at least the next three sections of the text and try any associated problems prior to coming to class. Problems will be assigned from out of the text. These are for your benefit. Some assignments may be collected and graded, most will not; however, tests will be drawn, in partial, from these problems. It is important for you to put pencil to paper, to actually work out the problems, drawing structures, performing calculations, and naming compounds. As you work the problems seek understanding and not simply try to get the correct answer.

**Text** General Chemistry: The Essential Concepts, 5<sup>th</sup> Edition, by Raymond Chang. , McGraw-Hill. Also available is a Student Study Guide. It will be the same book used in CHEM 112. Alternatively, *Chemistry, 9<sup>th</sup> ed.* also by Raymond Chang, copyright 2007, would be appropriate to use.

TENTATIVE TEST SCHEDULE			
Day	Date	Test #	Notes
M	August 25		New Student Convocation
T	August 26		First Day of Class
M	September 1		Last Day to Drop/Add
R	September 11	Test 1	First 50 elements (names & symbols)
R	October 2	Test 2	All elements (names & symbols)
T	October 7		Last day to withdraw with a "W"
T	October 14		Fall Break – No class
R	October 30	Test 3	
T	November 25	Test 4	
R	November 27		Thanksgiving Day – No Class
R	December 4		Last Day of Class
W	December 10	Cumulative <a href="#">Final Exam</a> 4:00-6:00 PM	

Grading Scheme	
Quizzes/Homework	20 %
Tests	60 %
<a href="#">Final Exam</a>	20 %
Please note: There are no opportunities for extra credit or "do overs."	

Grading Scale	
92-100	A
90-92	A-
88-90	B+
82-88	B
80-82	B-
78-80	C+
72-78	C
70-72	D
Below 70	F

**Lecture Schedule** We will cover Chapters 1-10 in order, skip 11, and finish with chapter 12.

**Final Exam** The final exam is cumulative over the entire semester and is a timed American Chemical Society Standardized test. It is weighted to count 20% of your overall grade. Do \*NOT\* be late. You should be on campus at least 30 minutes before the start of the final and should plan on being in your seat at least 5 minutes prior to the start of the final exam. Due to FERPA regulations I can \*NOT\* post final grades. You may consult [Cougar Trail](#) or [WebCT](#). Requests for an alternate final exam time must be processed per college regulations no later than 5 p.m. on the last day of class. Failure to take the final exam will result in a grade of "X" which turns to an "F" after 48 hours.