

**TENTATIVE SCHEDULE  
CHEM 1150  
GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS**

**Fall, 2004**

**Section:** 002                      **Room:** SZ C-209                      **Day/Time:** M,W,F: 9:00-9:50 am

**Instructor:** Dr. George Evans II

**Telephone:** 328-9791

**Office:** SZ-562

**e-mail:** [evansg@mail.ecu.edu](mailto:evansg@mail.ecu.edu)

**Office Hours:** M,W: 11:00-11:45 am; T,Th: 1:00-2:00 pm.

Other times by appointment or when the door is open. *I maintain an "open door" policy as much as possible and encourage you to visit when you have questions. I hope to get to know each of you on an individual basis.*

**Study Sessions:** Th: 5:00-6:00 pm (C-209). Others times scheduled as necessary.

**CHEM 1150 Blackboard Site:** <http://ecu.blackboard.com>

Your CHEM 1150 Blackboard site will be used for course announcements and as a source of items such as the course schedule, homework assignments, practice exams, as well as keys for problem sets, quizzes, and exams. The items will be located in folders under "Course Documents."

**Evans Homepage:** Under construction

**Chemistry Learning Center Webpage:** <http://www.ecu.edu/Learnchem>

**Chemistry Department Webpage:** <http://www.ecu.edu/chem>

**DISABILITY ACCOMMODATIONS:**

The University seeks to fully comply with the Americans with Disabilities Act (ADA). Students requesting accommodations based on a covered disability must go to the Department for Disability Support Services located in Brewster A-117, to verify the disability before any accommodation can be provided.

**PREREQUISITES AND COREQUISITES:**

**Corequisite or Prerequisite:** MATH 1065 (or higher level math course)!

**Recommended Prerequisite:** Passing score on the chemistry placement test or CHEM 0150 with passing grade.

**Required Corequisite:** CHEM 1151 (Laboratory).

*If lecture or lab is dropped, the other must also be dropped.*

**REQUIRED ITEMS:**

**Text:**                                      **Chemistry: The Central Science, 9/E, Brown, LeMay, Bursten (2003)**

*If a new text is purchased, the best value would be the text packaged with a CD, solutions manual and other ancillaries.*

**Scientific Calculator:**                      **Suitable calculators are available for about \$10**

*Bring the calculator to class daily for use on exercises and quizzes.*

*Programmable calculators will not be permitted on quizzes/exams.*

**Lecture Notes:**                              **Coursepak for Chemistry 1150, Dr. Evans**

*The coursepak contains lecture notes and exercises in workbook format. Ch. 1 will be available on your Blackboard site. Available only at the Dowdy Student Store*

**OPTIONAL ITEMS:**

<b>CD-ROM/Website:</b>	<b>Central Science Live, Student CD-ROM</b> and companion website. <i>Packaged with new textbooks.</i>
<b>Solutions Manual:</b>	<b>Red Solutions Manual (for Chemistry, The Central Science) Wilson</b> <i>Packaged with new textbooks.</i>
<b>Study Guide:</b>	<b>Student's Guide (for Chemistry, The Central Science) Hill</b>

**GRADING:**

Hour Exams (4)	60%
Quizzes and Homework	15%
Final Exam	25%

- **Overall Average** = Hour Exam Ave. x 0.60 + Quiz/Homework Ave. x 0.15 + Final Exam x 0.25
- **Grading Scale:** A (88-100), B (78-87), C (68-77), D (58-67), F (<58).
- **Quizzes**  
Quiz dates and topics will generally be announced and will frequently cover material from the preceding lecture(s). Questions will often be reflective of assigned exercises in the coursepak and text. If a quiz is missed during an unexcused absence, the grade will be zero. If a quiz is missed during an excused absence, it will not be counted in the average. Make-up quizzes are not administered. The lowest grade on the completed quizzes/homework will be dropped.
- **Homework**  
Homework collected for grading is to be promptly submitted at 9:00 am on the due date on the table in the front of the lecture hall. Late homework will not be accepted for grading. Homework will be assigned from the questions/exercises at the end of each chapter in the textbook. The assigned exercises from each chapter in the textbook will be available on the Blackboard site. These exercises are to be completed on a regular basis as the chapter is covered in the lecture. The instructor will announce the due date in advance for those assignments which will be collected for grading. Exercises in the required lecture coursepak are also to be completed as the topics are covered in class. Quiz and exam questions will frequently be similar to the assigned exercises in the textbook and coursepak. The lowest grade on the completed quizzes/homework will be dropped.
- **Hour Exams**  
Tentative dates for hour exams are presented on the attached class schedule. Students may replace their lowest completed Hour Exam score with their Final Exam score, if the latter is higher. Make-up exams are not administered. If an exam is missed during an excused absence, the Final Exam grade will be counted in lieu of that exam. If an exam is missed during an unexcused absence, the grade will be zero.
- **Final Exam**  
The Final Exam will be comprehensive. All sections of CHEM 1150 will take the same exam on the day scheduled for common exams. See class schedule below.

**ATTENDANCE:**

You are expected to attend classes regularly if you expect to be successful in this course. Class participation and questions are encouraged. You will be responsible for all assignments made during class, whether or not you are in attendance. If you are absent from class, you should contact your instructor or another student in the class to learn of any assignments.

- **Excused Absences**  
Please notify your instructor as soon as possible so that provision can be made for a grade for the missed work. Your instructor requests that you submit a hand-written, dated, signed excuse explaining the reason for your absence during any class period when work such as a quiz, homework, or exam, was due. In case of illness, it is important for you to visit the University Health Service. The instructor can verify that the student was unable to attend classes on the test day by calling the Infirmary. If a university field trip or athletic event conflicts with an exam date, you must arrange to take the exam early.

**CHEMISTRY LEARNING CENTER:**

The Chemistry Department maintains a Learning Center in *Room 343, Science and Technology Building*, for the benefit of students requiring additional assistance in coursework. Hours of operation for the center are posted outside of the center. Students are encouraged to avail themselves of this valuable departmental resource. The center is staffed by students who can provide assistance with the use of available audio/visual tutorials, tapes, and computer software as study aids.

Students may wish to use the computers in the center for working with your CD-ROM, *Central Science Live*, and connecting with the companion website for your textbook. Files in the Learning Center may be accessed through the following web address: <http://www.ecu.edu/Learnchem>.

**CHEMISTRY COMPUTER LABORATORY:**

The Chemistry Department maintains a student Computer Lab in *Room 347, Science and Technology Building*. The iMac computers are equipped with CD drives and internet connections. Students may wish to use the computers in this laboratory for working with *Central Science Live*, the student CD-ROM, and connecting with the companion website for the textbook. Hours during which the laboratory will be opened will be announced or posted outside of the laboratory.

## TENTATIVE CLASS SCHEDULE:

Period	Date	Chapter	Topic
1	August 25(W)	1	Introduction: Matter and Measurement
2	August 27 (F)	1	Introduction: Matter and Measurement
3	August 30 (M)	1	Introduction: Matter and Measurement
	August 31 (T)		<b>Last day for late regn/schedule changes (drop and add)</b>
4	September 1 (W)	1	Introduction: Matter and Measurement
		2	Atoms, Molecules, and Ions
			<b>Last day for schedule changes (add only)</b>
5	September 3 (F)	2	Atoms, Molecules, and Ions
	<b>September 6 (M)</b>		<b>State Holiday (no classes)</b>
6	September 8 (W)	2	Atoms, Molecules, and Ions
7	September 10 (F)	3	Stoichiometry: Calculations with Chemical Formulas and Equations
8	September 13 (M)	3	Stoichiometry: Calculations with Chemical Formulas and Equations
9	September 15 (W)	3	Stoichiometry: Calculations with Chemical Formulas and Equations
10	September 17 (F)	3	Stoichiometry: Calculations with Chemical Formulas and Equations
11	September 20 (M)	4	Aqueous Reactions and Solution Stoichiometry
12	September 22 (W)	4	Aqueous Reactions and Solution Stoichiometry
13	September 24 (F)		<b>Exam 1</b> (Chapters: 1, 2, 3)
14	September 27 (M)	4	Aqueous Reactions and Solution Stoichiometry
15	September 29 (W)	4	Aqueous Reactions and Solution Stoichiometry
16	October 1 (F)	5	Thermochemistry <b>Last Day to Drop a Semester-Length Course</b>
17	October 4 (M)	5	Thermochemistry
18	October 6 (W)	5	Thermochemistry
19	October 8 (F)	5	Thermochemistry
20	October 11 (M)	6	Electronic Structure of Atoms
21	October 13 (W)	6	Electronic Structure of Atoms
22	October 15 (F)		<b>Exam 2</b> (Chapters: 4, 5, Part of 6)
	<b>October 16-19 (Sat - Tues)</b>		<b>Fall Break</b>
23	October 20 (W)	6	Electronic Structure of Atoms <b>(Monday classes meet)</b>
24	October 22 (F)	7	Periodic Properties of the Elements
25	October 25 (M)	7	Periodic Properties of the Elements
26	October 27 (W)	7	Periodic Properties of the Elements
27	October 29 (F)	8	Basic Concepts of Chemical Bonding
28	November 1 (M)	8	Basic Concepts of Chemical Bonding
29	November 3 (W)	8	Basic Concepts of Chemical Bonding
30	November 5 (F)	8	Basic Concepts of Chemical Bonding
31	November 8 (M)		<b>Exam 3</b> (Chapters: Part of 6, 7, 8)
32	November 10 (W)	9	Molecular Geometry and Bonding Theories
33	November 12 (F)	9	Molecular Geometry and Bonding Theories

34	November 15 (M)	9	Molecular Geometry and Bonding Theories
35	November 22 (M)	10	Gases
36	November 19 (F)	10	Gases
37	November 22 (M)	10	Gases
	<b>Nov. 24-28 (Wed - Sun)</b>		<b><i>Thanksgiving Break</i></b>
38	November 29 (M)	11	Intermolecular Forces, Liquids, and Solids
39	December 1 (W)	11	Intermolecular Forces, Liquids, and Solids
40	December 3 (F)	11	Intermolecular Forces, Liquids, and Solids
41	December 6 (M)	11	<b>Exam 4</b> (Chapters: 9, 10,11)
42	December 8 (W)	11	Intermolecular Forces, Liquids, and Solids; Review
	December 9 (Th)		<b>Lab Final Exam (5:00 – 6:00 PM) Room TBA</b>
	December 10 (F)		<b>Lecture Final Exam (5:00 - 7:30 PM) Room TBA</b>

## TIPS AND SUGGESTIONS FOR SUCCEEDING IN CHEM 1150:

Your instructor is very committed to helping you succeed and excel in this course. However, your success will require dedication and much hard work on your part. Your gains from the course will be proportional to the effort that you put forth. Consistent daily study and problem-solving are essential; do not fall behind! Constant practice and repetitions are vital to success, not only in sports, dance, and music, but also in chemistry. Your grade will be determined primarily by your performance on the four Hour Exams and the Final Exam which will test your understanding and working knowledge of the material. While it may appear that homework and quiz grades will not have a major impact on your overall grade, your performance on exams will generally reflect the effort you put forth on daily study and homework assignments.

- Consistent, daily study and problem-solving are vital to be successful in this course! Keep up on a daily basis and avoid getting behind. You should devote about two-three hours per day to study/problem-solving.
- Attend class regularly and ask questions when a topic is unclear. Make good use of class time devoted to problem-solving.
- Maintain your coursepak/lecture notes, problem sets, exams, and quizzes in a 3-ring binder for easy reference. Use of dividers with tabs to organize your binder is recommended. Have extra notebook paper available in your coursepak for taking additional notes presented on the blackboard during lecture.
- Read (and reread, as necessary) the assigned textbook chapter very early during the scheduled class coverage. Study all examples carefully and anticipate and formulate your questions for class.
- Work neatly and completely the assigned exercises/questions in the textbook on a regular basis as early as possible during the scheduled class coverage. Keep these problem sets in your binder for easy reference. Reread the textbook coverage as necessary. Be prepared to ask questions concerning assigned problems during class, SI sessions, or study sessions.
- Prior to each class meeting, preview and study about the next 7-8 pages of your Lecture Note Coursepak and formulate any questions for lecture. Work the coursepak exercises in a timely fashion, prior to class, if possible. Reread the notes and textbook as needed.
- Review and understand the *Key Terms* and concepts in the *Summary* after reading each textbook chapter. Assure that you meet each of the Learning Goals outlined in your coursepak for each chapter.
- Use the optional student *Central Science Live* CD-ROM and *Chemistry Live* website to practice exercises for each chapter and view animations of important concepts.
- Make use of your instructor's office hours. Dr. Evans maintains an "Open Door" policy and welcomes your visits when the door is open. Many questions can easily be answered or problems discussed via e-mail or telephone, often saving you a trip to campus. Use your instructor as a resource!
- Attend and participate in Supplemental Instruction (SI) sessions (tentative for F, 2004) scheduled several times each week and taught by advanced students. This equates to a valuable "free" tutoring service!
- Attend and participate in Study Sessions offered by your instructor.
- Visit the Chemistry Learning Center (SZ-343) for additional assistance, for use of computer tutorials, and to work exercises and view animations on your CD-ROM and connect to the *Chemistry Live* web-site. Use the iMac's in the Computer Lab (SZ-347) to work exercises and view animations on your CD-ROM and connect to the *Chemistry Live* web-site.