

**TENTATIVE SCHEDULE**  
**CHEM 1160**  
**GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS**

**Summer Session II, 2004**

**Section:** 300  
**Room:** SZ-307  
**Day/Time** M,W,F: 9:00-12:00

**Instructor:** Dr. George Evans II  
**Office:** 562 Science and Technology Building  
**Telephone:** 328-9791  
**e-mail:** [evansg@mail.ecu.edu](mailto:evansg@mail.ecu.edu)

**Office Hours:** M-F: 8:00-8:45 am. Other times by appointment and when the door is open. I maintain an "open door" policy and encourage you to visit when you have questions. I hope to get to know each of you on an individual basis.

**Blackboard:** <http://ecu.blackboard.com>

A CHEM 1160 site will be maintained on your Blackboard providing course information including items such as assignments, practice exams, as well as problem set, quiz, and exam keys.

**Prerequisites:** CHEM 1150, 1151  
**Prerequisite:** MATH 1065 (or higher level math course)  
**Corequisite:** CHEM 1161 (Laboratory)  
**Recommended Corequisite:** MATH 1075 or 1085

**Text:** *Chemistry: The Central Science*, 9/E, Brown, LeMay, Bursten (2003) **Required**  
**CD-ROM/Website:** *Central Science Live*, Student CD-ROM and companion website. **Required**  
 Packaged with the textbook.

**Lecture Notes:** *Coursepak for Chemistry 1160*, Dr. Evans **Required**  
 The coursepak contains lecture notes and exercises in workbook format.  
 Available only at the Dowdy Student Store

**Solutions Manual:** *Red Solutions Manual* (for *Chemistry, The Central Science*) Wilson **Optional**  
**Study Guide:** *Student's Guide* (for *Chemistry, The Central Science*) Hill **Optional**

**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.

**GRADING:**

- **Weighting:**

3 Hour Exams	60%
Daily Quizzes/Homework	20%
Final Exam	20%
- **Overall Average** = Hour Exam Ave. x 0.60 + Quiz/Homework Ave. x 0.20 + Final Exam x 0.20
- **Grading Scale:** A (88-100), B (78-87), C (68-77), D (58-67), F (<58).
- **Homework:** Homework will be assigned from the exercises at the end of each chapter in the textbook. These assigned exercises can be accessed from your CHEM 1160 Blackboard site in the "Assignments" file. The exercises are to be completed on a regular basis as the chapter is covered in the lecture. Exercises in the coursepak are also to be completed as the topics are covered in class. Problem-solving sessions conducted during the last hour of each

class meeting provide an opportunity for your instructor to lend one-on-one assistance with these exercises. Quiz questions will frequently be taken from assigned exercises in the textbook and coursepak.

- **Quizzes:** Quizzes will generally be administered on a daily basis. Quiz topics will generally cover material from the preceding lecture and related assigned exercises.

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 those quizzes completed will be dropped.

- **Hour Exams:** Tentative dates for hour exams are presented on the attached class schedule. Each student may replace his/her lowest Hour Exam score with his/her Final Exam score, if the latter is higher. For example, the Final Exam may count 40% (i.e. 20% + 20%) of the course grade. Make-up exams are not administered. If an exam is missed during an excused absence, the Final Exam grade will only 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.

#### ATTENDANCE:

- **Attendance is required in this section for the entire class period. Three unexcused absences will result in a failing grade.** If you are absent from class, you should contact your instructor or another student in the class to learn of any assignments. Class participation and questions are encouraged.
- **Excused Absences:** Please notify your instructor as soon as possible so that provision can be made for a grade for the missed work. In case of illness, it is important that you visit the University Health Service. The instructor will 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.

#### MISCELLANEOUS INFORMATION:

- Purchase a **scientific calculator** and bring the calculator to class regularly for use on exercises and quizzes. Suitable calculators are available for about \$10. **Programmable calculators will not be permitted on quizzes or exams.**
- Bring your text, coursepak, and a calculator to class each day for use during problem-solving sessions.
- Dr. Evans encourages you to utilize his email address for questions regarding the course.

#### 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 the 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:**

<b>Period</b>	<b>Date</b>	<b>Chapter</b>	<b>Topic</b>
1	June 24 (Th)	25	Syllabus, The Chemistry of Life: Organic and Biological Chemistry (Sections 1-7)
2	June 25 (F)	25	The Chemistry of Life: Organic and Biological Chemistry
3	June 28(M)	25	The Chemistry of Life: Organic and Biological Chemistry
4	June 29 (T)	13	Properties of Solutions
5	June 30 (W)	13	Properties of Solutions
6	July 1 (Th)	13	Properties of Solutions
		14	Chemical Kinetics (Sections 1-6; parts of 7, 8, 9)
7	July 2 (F)	14	<b>Exam 1</b> (Ch. 25, 13); Chemical Kinetics
	July 5 (M)		<b>Holiday</b>
8	July 6 (T)	14	Chemical Kinetics
9	July 7 (W)	14	Chemical Kinetics
10	July 8 (Th)	15	Chemical Equilibrium
11	July 9 (F)	15	Chemical Equilibrium
12	July 12 (M)	16	Acid-Base Equilibria
13	July 13 (T)	16	Acid-Base Equilibria
14	July 14 (W)	16	Acid-Base Equilibria
15	July 15 (Th)	17	Additional Aspects of Aqueous Equilibria (1-6)
16	July 16 (F)	17	<b>Exam 2</b> (Ch. 14, 15, 16, some of 17); Additional Aspects of Aqueous Equilibria (1-6)
17	July 19 (M)	17	Additional Aspects of Aqueous Equilibria (1-6)
18	July 20 (T)	17	Additional Aspects of Aqueous Equilibria (1-6)
19	July 21 (W)	19	Thermodynamics
20	July 22 (Th)	19	Thermodynamics
		20	Electrochemistry (Sections 1-6, 9)
21	July 23 (F)	20	Electrochemistry (Sections 1-6, 9)
22	July 26 (M)	20	Electrochemistry (Sections 1-6, 9)
		21	Nuclear Chemistry
23	July 27 (T)	21	<b>Exam 3</b> (Ch. 17, 19, 20)
		21	Nuclear Chemistry
24	July 28 (W)	21	Nuclear Chemistry
		24	Chemistry of Coordination Compounds (Sections 1-4)
25	July 29 (Th)	24	Chemistry of Coordination Compounds (Sections 1-4)
26	July 30 (F)		<b>Final Exam</b>

**TIPS AND SUGGESTIONS FOR SUCCEEDING IN CHEM 1160:**

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 get 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 Hour Exams and the Final Exam which will test your understanding and working knowledge of the material. However, your performance on exams will generally reflect the effort you put forth on daily study and homework assignments.

- 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.
- Attend class regularly and ask questions when a topic is unclear. Make good use of class time devoted to problem-solving.
- 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.
- 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 from 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, carefully 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.
- 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. His schedule is posted on his door. Consider also, that many questions can easily be answered or problems discussed by e-mail or telephone, often saving you a trip to campus. Use your instructor as a resource!
- Visit the Chemistry Learning Center (*Science and Technology 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 (*Science and Technology 347*) to work exercises and view animations on your CD-ROM and connect to the *Chemistry Live* web-site.