CHEM 101: General Chemistry

Edwin J. Geels

Dordt College

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Fall Semester 2000

Instructor: Dr. Edwin J. Geels
Office: S-219
Phone: Office - Ext. 6284; Home - 722-3003
Email: geels@dordt.edu
Textbook: General, Organic, and Biological Chemistry,
McMurray & Castellion, 3rd. ed.
Time: Monday-Wednesday-Friday at 10 AM in S-108

Credit: 4 tests=400 points=65%; Problem Assignments=6%; Attendance=4%;
Laboratory = 25%

LECTURE AND TEST SCHEDULE:

1. Chapter 1 - Matter and Energy -
2. Chapter 2 - Measurements in Chemistry -
3. Chapter 3 - Atoms and the Periodic Table -
   EXAM #1 - OVER THE FIRST 3 CHAPTERS

4. Chapter 4 - Ionic Compounds -
5. Chapter 5 - Molecular Compounds -
6. Chapter 6 - Chemical Reactions: Classification and Mass
   Relationships
   EXAM #2 - OVER CHAPTERS 4-6

7. Chapter 7 - Chemical Reactions: Energy, Rates, and Equilibrium -
8. Chapter 8 - Gases, Liquids, and Solids -
9. Chapter 9 - Solutions -
   EXAM #3 - OVER CHAPTERS 7-9

10. Chapter 10 - Acids and Bases
11. Chapter 11 - Nuclear Chemistry
   EXAM #4 - OVER CHAPTERS 10-11 Plus Selected Questions from
   Chapters 1-9 (DURING FINAL EXAM PERIOD-SATURDAY
   DECEMBER 16 AT 3:30 P.M.)

COURSE POLICIES AND RECOMMENDATIONS

Problems: You should review the “Solved Problems” and work many of the “Practice
Problems” found within each Chapter. The Problems assigned to be handed in are from the
end of the Chapter Problems highlighted in RED. This will be all of the “Understanding Key
Concepts” problems and every even numbered “Additional Problem”. Although the answers to
these problems are given in the back of your textbook you should not refer to them except to
check to see if you have the correct answers at the conclusion of your problem assignment.
Your answers to the Problems should be all written out on 8”x11” sheets of white paper stapled
together and prepared to hand in at the end of each Chapter’s work. For the last Chapter of
each group just before each Exam, these Chapter Problems will be handed in on the day of the
Exam. In the case of mathematical answers you should show how you arrived at this answer and not just write down the answer itself. It is extremely important for you to do problem assignments if you want to do well in this course. Some of you will undoubtedly benefit by working more than just the assigned problems.

2. **Study:** The material in this course is best learned by regular, consistent study which includes reading the text, reviewing lecture notes, and the problem assignments. You should read the material in the book before the lecture (expect 10 - 13 pages per lecture). Knowing what to expect and what is in the book, you can take fewer notes (or maybe no notes at all) and spend more time listening to and understanding the lecture. Before the next lecture, review your notes and the book, and do the in-chapter problems. Also read the material for the next lecture. If you are confused about something either bring it up at the beginning of the next lecture period or see me during my office hours. If you are having a great deal of trouble keeping up and understanding the material you should make an appointment with the Academic Skills Center (ASC) and they will assign a Tutor who will meet with you at regular times to go over the material and problems on which you need help. Remember the two “golden rules” of Chemistry. (1) **DON’T GET BEHIND!** (2) **WORK LOTS OF PROBLEMS!**

3. **Exams:** The first three tests will be announced at least 1 week prior to the actual test date. If you attend class regularly, read assignments promptly, and work the problems assigned, you should not have to spend an inordinate amount of time cramming for a test. Therefore all students will be expected to be present for each test. Excuses such as: I overslept, my alarm didn't go off, my roommate didn't wake me, I have (2,3,4) other tests that day, I went home for the weekend, etc. will not be accepted. Retests may be taken only with a penalty reduction of grade. (Note: There may be legitimate excuses for missing a test such as being really sick or having to attend a college-sponsored activity off campus.) Note also that the college rules specify that unexcused absences may result in a penalty reduction of your grade.

4. **Attendance:** Note that there will be assigned seating and attendance will be recorded every class period. It is your responsibility to be in class on time and to have had enough sleep the previous night to be alert so you can profit from class activities. People who are not in their assigned seats such as one seat over or one row back will be counted as absent. Being late for class several times or sleeping in class will result in your being counted as absent. There may be times when some will need to miss class because of College-sponsored events on or off campus. For each of these times I will need a signed note (this is in addition to the notice sent out by your coach/instructor) in advance of the absence time giving the following information: your name, reason for the absence (eg. basketball game) and Date of absence. These notes should be given to me during any class period or emailed to me at <geels@dordt.edu> before the absence date. Do not give this information by means of a phone call as this give me no written record.

5. **Note to smokers:** It is very discourteous and inconsiderate to smoke right up to the time class starts and then come in and sit next to a non-smoker exhaling smoke and smelling like smoke. This is very irritating and even nauseating to many of your fellow students. I have received several requests in the past for changes in the seating pattern because of this problem. Therefore the seating chart will have a section for smokers and you should notify me at the first class meeting if you smoke and I will seat you accordingly.