

Arthur L Meyer

Office- NRG 2219 / SAC 1329

Office Hours (NRG) M,W 1000-1030a;115-145p // (SAC) T,TH 930a-1030a; noon-1230p

Web Site: www.professormeyer.com

email- ameyer@austincc.edu

COURSE DESCRIPTION

➤ This course consists of a lecture section only.

COURSE RATIONALE

➤ This course covers the fundamental facts, laws, principles, theories and concepts of chemistry necessary for further work (college level) in science or science-related subjects.

PREREQUISITES

➤ Math skills level of co-enrollment in intermediate algebra.

REQUIRED TEXTS/MATERIALS

➤ Introductory Chemistry- *An Active Learning Approach*, Fourth Edition, Cracolice and Peters, Thompson/Brooks Cole, 2011/2007.

➤ Scientific Calculator

INSTRUCTIONAL METHODOLOGY

Lectures will be presented in PowerPoint format. Class Handouts are posted on the website and are to be printed out in advance of lectures. They contain all of the PowerPoint slides with some of the details and notes missing ... for you to fill in. All in-class practice problems are contained in the Class Handouts.

HOMEWORK

➤ Homework is to be kept in a separate notebook and is to be turned in at the beginning of each quiz. Bring your homework notebook to my office when seeking help during office hours. See section on how to keep your notebook.

COURSE EVALUATION/GRADING SCHEME

➤ A=90-100 B=80-89 C=70-79 D=60-69 F<60

➤ 3 Quizzes = 70%; Final Exam = 25%; Homework = 5%

QUIZZES- Quizzes will be given on the dates shown in the Examination Schedule section of the syllabus.

COURSE POLICIES

➤ There are no make-up or retest quizzes or exams given

➤ One quiz grade may be replaced by the final exam grade

➤ The final exam will be held on the last class day of the semester.

➤ Failure to take the final exam will result in a grade of "F" assigned for the course.

➤ Attendance is required (students are responsible for all announcements made in class)

➤ No recording devices allowed, except for documented special needs students

➤ Shut off all cell phones, beepers, watch chimes. Repeated offenses will have points deducted

Common course objectives

See <http://www3.austincc.edu/catalog/descchem.htm>

Statement on Scholastic Dishonesty- See Student Handbook/College Catalog-latest edition

Statement on Students with Disabilities- See Student Handbook/College Catalog -latest edition

Statement on Academic Freedom- See Student Handbook/College Catalog -latest edition

Student Discipline Policy- See Student Handbook/College Catalog -latest edition

COURSE OUTLINE/CALENDAR

<u>Unit</u>	<u>Chapter</u>	<u>Homework Assignment</u>
1- Matter and Energy	2	9, 11, 12, 13, 15, 17, 21, 23, 26, 27, 37-41, 46, 48, 55, 56, 60
2- Measurement and Calculation	3	1-4, 6-9, 13-17, 19, 20, 22, 29, 30, 33-38, 40-44, 47, 52-55, 57-59, 63-72, 89-92
3- Atomic Theory	5	11, 12, 17, 19, 21, 22, 25, 27, 28, 31-36, 38, 39, 46
	20	2, 4-6
4- Modern Atomic Theory	11	1, 3-6, 9-12, 19, 22, 30, 37-40, 42, 43, 46, 52, 54-56, 60-63, 66, 67
5- Bonding	12	3, 6, 7, 9, 15, 18, 20, 21, 25, 26
	13	Lewis Recognition: 4, 5, 8, 9; 1, 2, 6, 8, 11, 12, 14
6- Nomenclature	6	21, 22, 33-43, 52, 56, 60, 62, 63, 67, 71-73, 75, 76, 79, 80
7- Formulas and Calculations	7	1, 2, 7, 13, 22, 23, 25, 26, 29, 30, 33-36, 38, 41, 42, 44, 46, 49, 53, 54, 56-64
8- Reactions and Stoichiometry	8	1-11, 9, 11, 13, 15, 18, 19, 22, -24, 27, 28, 30-35, 39, 41, 42-44, 47, 52-55
	9.6	25-28
	10	1, 2, 7c,d, 8c,d, 12, 21, 22
	14.6	29-32, for 33-38 use STP conditions
9- Solutions	16	15, 35-37, 41, 42, 83, 85, 91, 93, 95, 96
10- Ionic Equations	9	13, 15, 18, 29-36, 45, 48-50, 53, 56, 60, 65, 70, 73
11- Acids and Bases	17	2, 9, 11, 12, 14, 15
12- Oxidation/ Reduction	19	6-8, 17-20, 21-28, 30

As time permits:

Chapters 4, 13, 15 (reading of these chapters is required, regardless)

Examination Schedule

All quizzes and final examination are given in class, on the following dates, subject to change.

Quiz 1	February 24
Quiz 2	March 24
Quiz 3	April 21
Final Exam	December 12

Homework Notebook

Your homework notebook must be in the following format:

1. The notebook must be bound- composition or spiral (no loose leaf notebooks or 3 ring binders!)
2. All pages are to be numbered consecutively (no torn out pages, no additional pages).
3. Each page should be dated and the chapter being worked, indicated.

Hint: I should be able to open your homework notebook to any page and know what chapter the homework is from and the date you worked on the assignment.

Homework FAQ

Why do it?

Homework is done to reinforce concepts, principle and techniques illustrated and discussed in lecture. It's the only way to learn and master the material. It's the only way to pass.

How should I do it?

Homework should be done like taking tests and quizzes- no open notes, closed book. This means you must first learn the material by memorization, studying and understanding class notes, delving into the text to review concepts, practice with in-chapter examples and exercises, go to your professor's office hours for additional help.

When should I do it?

Homework should be done lecture by lecture. Learn the material given in a 75 minute lecture and have the homework done that covers that lecture BEFORE the next lecture.

What should I do?

The day of a lecture find time to go over the notes and read the sections in your text that were covered in the lecture. Be sure that you understand why things are done the way they are done and that you could explain the concepts to someone else.

The next day find time to once again look over the notes. If you really understand what was covered, take out blank sheets of paper, open to the homework that covers yesterday's lecture and try it. Remember, no looking up anything. If you have difficulty and don't feel as though you know what's going on, STOP DOING homework and restudy the notes and text. Go to your professor's office hours for additional help. When you feel that you know the material, go back and try the homework. Repeat as necessary.

Repeat the entire process for the next lecture, etc.

How much time will it take to do this?

About 3 hours of study/homework for each lecture (that's less than 1 hour per day each week)

When can I stop?

When the semester has ended, you can stop doing homework.

Isn't that a lot of work?

It is. This is your education we're talking about. It's not a gift. It's not a privilege. It's not a right. It's something you earn through hard work and dedication.