

Chemical Principles II
Chemistry 1220
Honors Section
Spring 2012

Instructor: Dr. Kim Weaver

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Lecture Schedule: MTWF 8:00-9:00 a.m. Science Building 225

Office Hours: MTW 10:20 a.m.-12:00 p.m. Consultation is also available by appointment. You may also drop by my office at anytime. If I have time, I will be glad to help.

Catalog Course Description: CHEM 1220- Principles of Chemistry II Continuation of CHEM 1210. An introductory chemistry course designed for students in engineering, physical science, pre- medical, pre-dental, pre-pharmacy, pre-veterinary medicine. For all students who need more than one year of chemistry.

Prerequisites: A minimum grade of C (2.0 or better in CHEM 1210)

Objective: To obtain a firm grasp of basic chemical principles and understand their importance.

Required Materials:

" Chemistry, The Central Science" by Brown LeMay Burstein and Murphy 11th edition

Chapters scheduled to be covered: 11 – 21

Chem Skilbuilder 2000 on line version

Grading Policy: Your grade will be based as follows:

4 Midterm Exams	800 points (200 points each)
Final	400 points
Chem Skill Builder Homework	90 points
Quizzes	120 points
Chapter Homework:	60 points
Undergraduate Research Project	50 points
Science Fair	20 points

Final grades will be assigned as follows:

Percentage	Grade
93.0 -100	A
90.0- 93.0	A-
86.5-90.5	B+
83.0-86.5	B
80.0-83.0	B-
76.5-80.0	C+
70.0-76.5	C
65.0-70.0	C-
60.0-65.0	D+
<60	F

Tentative Exam Schedule: Aproximately 2 chapters per exam
February 1
February 29
April 3
April 25
American Chemical Society Final Tuesday May 1, **7:00 a.m.**

ADA Policy: Students with medical, psychological, learning or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the Southern Utah University Coordinator of Services for Students with Disabilities (SSD), in Room 206F of the Sharwan Smith Center or phone (435) 865-8022. SSD determines eligibility for and authorizes the provision of services.

Exam Policy: The Final Exam shall be comprehensive per Chemistry Department policy. The Final is produced by the American Chemical Society and is not available to the instructor prior to the date of testing. Therefore, it is to your advantage to learn as much as possible throughout the semester to avoid “cramming for the final”. This test is a multiple choice examination, a scantron will be required. All other exams are not multiple choice and a scantron is not required

Honesty Policy: Academic dishonesty will not be tolerated and will be prosecuted to the fullest extent.

Academic Dishonesty includes but is not limited to cheating, fabrication, plagiarism or facilitating dishonesty. Except for cases of major offenses, responding to academic dishonesty is the responsibility of the instructor of the course in which the dishonesty occurs. If a student is guilty of academic dishonesty, the consequences may range from admonition or formal reprimand to dismissal from the class and may include a failing grade for the assignment, exam or course. Other penalties for severe infractions will be dealt with, based on Southern Utah University’s Policies and Procedures - 11.2. Student’s rights and responsibilities are also detailed in the student handbook

Chem Skilbuilder Homework: Appropriate sections of Chem Skilbuilder CD will be assigned throughout the semester. You will be required to complete each section with score of 80 % or

more. If the section is completed with 80% or better, you will be credited 100% for that section. Each Section is worth 1 point. If you score between 70-79%, you will receive ½ point for the section. If you don't turn in the Chemskill builder on time, you will not be given credit for the homework. Only in rare circumstances will you be able to turn them in late. If you are allowed this privilege, you will only receive 50% of the points possible.

Register as:

Class ID: Chem1220

Section ID: Spring2012

Quizzes: Quizzes will be given daily. They are assigned to help you understand the material, to let you know how well you are grasping the material and to let me know which topics are being understood by the class. Do not be discouraged if you are not getting high scores for the quizzes. These quizzes are given to help you learn the material. The only way that your grade will suffer significantly will be if you fail to attend class and do not take the quizzes.

Attendance Policy: Students are expected to come daily. With few exceptions, allowances (i.e. make up missed quizzes etc.) will not be made for students who miss class.

Chapter Homework: The following homework problems will be assigned daily after class to reimphasize the material covered in class. These problems will not always be required to be turned in the next day. The instructor will require these problems to be turned in on a random basis. You are welcome to do problems in advance. You will not receive credit for homework handed in late.

Late assignments/make up work: You are expected to take the exam on the day the test is given. When warranted, tests may be taken at another time with approval of the instructor:

Emergency Management Statement:

In case of emergency, the University's Emergency Notification System (ENS) will be activated. Students are encouraged to maintain updated contact information using the link on the homepage of the mySUU portal. In addition, students are encouraged to familiarize themselves with the Emergency Response Protocols posted in each classroom. Detailed information about the University's emergency management plan can be found at <http://www.suu.edu/ad/facilities/emergency-procedures.html>

Disclaimer: Information contained in this syllabus, other than the grading, late assignments, makeup work and attendance policies, may be subject to change with advance notice, as deemed appropriate by the instructor.

Chapter Homework: Problems

Chapter 11: 2, 3, 6, 7, 12, 13, 15, 19, 21, 25, 28, 31, 35, 38, 44, 46, 49, 52, 55, 58, 61, 63, 72, 77, 84, 89

Chapter 13: 3, 5, 7, 10, 14, 16, 22, 24, 28, 30, 35, 40, 48, 52, 58, 62, 66, 67, 70, 89, 91, 79

Chapter 14: 2, 3, 4, 7, 9, 16, 18, 24, 29, 40, 42, 48, 50, 53, 58, 65, 66, 69, 74, 95

Chapter 15: 2, 4, 8, 13, 15, 21, 23, 25, 28, 29, 33, 35, 37, 39, 45, 49, 53, 55, 60, 63, 66, 71, 78, 83

Chapter 16: 3, 18, 22, 24, 26, 32, 34, 35, 36, 40, 44, 46, 50, 56, 60, 64, 66, 76, 78, 92, 84, 88, 94, 102, 120, 127

Chapter 17: 4, 5, 6, 11, 18, 22, 24, 26, 28, 36, 40, 44, 50, 54, 56, 68, 81, 92, 109

Chapter 19: 3, 4, 8, 9, 14, 19, 24, 30, 34, 38, 41, 46, 48, 50, 56, 58, 62, 68, 70, 76, 90, 93, 107

Chapter 20: 16, 20, 22, 26, 35, 36, 42, 44, 52, 54, 62, 64, 84, 109

Chapter 21: 12, 14, 18, 27, 28, 42, 65

Homework Assignment Table:

Date	Problems Assigned	Were they required to be turned In? Y/N
Jan-09	First day Nothing due	
Jan-10		
Jan-11		
Jan-13		
Jan-17		
Jan-18		
Jan-20		
Jan-23		
Jan-24		
Jan-25		
Jan-27		
Jan-30		
Jan-31		
Feb-01	Exam #1	
Feb-03		
Feb-06		
Feb-07		
Feb-08		
Feb-10		
Feb-13		
Feb-14		
Feb-15		
Feb-17		
Feb-21		
Feb-22		
Feb-24		
Feb-27		
Feb-28		
Feb-29	Exam #2	
Mar-02		
Mar-05		
Mar-06		
Mar-07		
Mar-09		
Mar-19		
Mar-20		
Mar-21		
Mar-23		
Mar-26		
Mar-27		
Mar-28		
Mar-30		
Apr-02		

Date	Problems Assigned	Were they required to be turned In? Y/N
Apr-03		
Apr-04	Exam #3	
Apr-06		
Apr-09		
Apr-10		
Apr-11		
Apr-13		
Apr-16		
Apr-17		
Apr-18		
Apr-20		
Apr-23		
Apr-24		
Apr-25		
Mar-30		
Apr-02		
Apr-03	Exam #3	
Apr-06		
Apr-09		
Apr-10		
Apr-11		
Apr-13		
Apr-16		
Apr-17		
Apr-18		
Apr-20		
Apr-23		
Apr-24		
Apr-25		
Apr-26	Study Day	

Chem Skilbuilder Assignment Table Exam 1:			
Section:	Text Reference:	Assignment Date:	Due Date:
14.1 (Intermolecular Forces	Chapter 11		
14.2			
14.3			
14.4			
14.5			
14.6			
15.1 (Colligative Properties)	Chapter 13		
15.2			
15.3			
15.4			
15.5			
16.1 Kinetics	Chapter 14		
16.2			
16.3			
16.4			
16.5			
16.6			
17.1 Equilibria	Chapter 15		
17.2			
17.3			
17.4			
17.5			
18.1 Acids	Chapter 16		
18.2			
18.3			
18.4			
18.5			
19.1 Buffers	Chapter 17		
19.2			
19.3			
19.4			
19.5			
20.1 Aqueous Equilibria			
20.2			
20.3			
20.4			
20.5			
21.1 Thermodynamics	Chapter 19		
21.2			
21.3			
21.4			
21.5			

22.1 Electrochemistry	Chapter 20		
22.2			
22.3			
22.4			
22.5			
23.1 Nuclear Chemistry	Chapter 21		
23.2			
23.4			
23.5			