

**King Fahd University of Petroleum and Minerals**

**Chemistry Department**

**Second Semester (072)**

**CHEM 101**

**2007/08**

**Lecture and Lab Schedule**

**Textbook: Chemistry by Zumdahl & Zumdahl, 7<sup>th</sup> Edition**

Week	Lec No.	Day	Date	Chapter	Section(s)	Lab	Homework
1	1	S	Feb. 16	1	1-5	No lab	Ch 1: 34, 44, 50, 56, 71
	2	M	18	1	6-9		
	3	W	20	2	1-3		Ch 2: 27,47,49, 59, 68
2	4	S	23	2	4-6	The laboratory and SI (Dry lab)	Ch 3: 27, 53 , 58, 62, 69, 75, 86, 89, 101
	5	M	25	2	7-8		
	6	W	27	3	1-3		
3	7	S	Mar. 1	3	4-6	Basic laboratory operation (Expt.1)	
	8	M	3	3	7-8		
	9	W	5	3	9-10		
4	10	S	8	4	1-3	Water analysis (Expt. 3)	Ch4: 17, 22, 31, 37, 47, 55, 63, 67, 71, 73
	11	M	10	4	4-6		
	12	W	12	4	7-8		
5	13	S	15	4	9-10	Percent of water in a hydrated salt (Expt. 6)	Ch 5: 27, 34, 38, 53, 63, 67, 70, 77, 86, 89
	14	M	17	5	1-2		
	15	W	19	5	3-4		
6	16	S	22	5	5-6	Limiting reactant (Expt. 8)	
	17	M	24	<i>Review</i>			
	<b>March 25(Tuesday) - First Major-Ch: 1 – 5.5</b>						
	18	W	26	5	6-7		
7	19	S	29	5	7-8	Molar mass of a volatile liquid (Expt. 18)	Ch 6: 22, 30, 36, 42, 45, 61, 64, 73
	20	M	31	6	1-2		
	21	W	Apr. 2	6	2-3		
8	22	S	5	6	3-4	Calorimetry (Expt. 21)	Ch 7: 40, 42,49, 59, 64, 66, 71, 80, 90, 96
	23	M	7	7	1-3		
	24	W	9	7	4-5		
<i>Midterm Vacation (April 12 – 16)</i>							
9	25	S	19	7	6-9	A volumetric analysis (Expt. 9)	
	26	M	21	7	10-11		
	27	W	23	7	11-12		
10	28	S	26	8	1-3	Vinegar analysis (Expt. 10)	Ch 8: 23, 25, 34, 39, 43, 46, 54, 57, 68, 81, 93
	29	M	28	8	4-6		
	30	W	30	8	7-9		
11	31	S	May. 3	8	10-11	Synthesis of an alum (Expt. 17)	
	32	M	5	<i>Review</i>			
	<b>May 6 (Tuesday)- Second Major- Ch: 5.6 – 8.11</b>						
	33	W	7	8	12-13		
12	34	S	10	9	1	Molecular mass of a solid (Expt. 20)	Ch 9: 27, 32, 36, 40, 45, 51
	35	M	12	9	2-3		
	36	W	14	9	4-5		
13	37	S	17	10	1-2	Lab test	Ch 10: 29, 33, 44, 45, 53, 63, 71, 82, 87, 91
	38	M	19	10	3-4		
	39	W	21	10	6-8		
14	40	S	24	10	8-9	No lab	Ch 11:26, 31, 38, 43, 49, 53, 58, 66, 70, 71
	41	M	26	11	1-2		
	42	W	28	11	3-4		
15	43	S	31	11	4-5	No lab	
	44	M	Jun. 2	11	6-7		
	45	W	4	<i>Review- Ch:1-11</i>			

Note: Sections 5.9, 5.10, 6.5, 6.6, 7.13, 10.5, and 11.8 are reading assignments and will not be covered in the lecture.

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**(072) 2007-08**  
**GENERAL INFORMATION**  
**Chemistry by Zumdahl and Zumdahl, 7<sup>th</sup> Edition**

**1. Homework**

Students are strongly advised to do the homework problems assigned from the textbook. Solutions of the homework will be posted on the CHEM 101 bulletin board located outside the auditorium (4-125).

**2. Quizzes and Exams**

Quizzes will be given in the recitation classes and exams will be common. WebCT may also be used for quizzes. The problems in quizzes and exams can be related to any material mentioned in the syllabus.

**3. Online Study Center**

It is strongly recommended that students make use of online study center of the textbook at [www.kfupm.edu.sa/chem/gchem](http://www.kfupm.edu.sa/chem/gchem) website. This is extremely helpful in the visualization of concepts using animations, videos, molecular models and problem solving strategies.

**4. General Policy on attendance and make-ups**

- (a) Attendance in the classes will be taken within five minutes of the beginning of the class.
- (b) "DN" grade will be given to any student exceeding
- 9 unexcused or 15 excused/unexcused absences in the lecture classes
  - (OR)
  - 3 unexcused or 5 excused/unexcused absences in the laboratory classes
  - Officially authorized excuse of absences must be presented to the instructor **no later than one week** following the resumption of class attendance.
- (c) **No Make-up** will be given for the majors, quizzes and labs.

**5. Final Grade Distribution**

<b>Component</b>	<b>Points</b>	<b>Percent (%)</b>
First major	50	12.5
Second major	50	12.5
Laboratory work	100*	25
Classwork:		
(a) Quizzes	90**	22.5
(b) Attendance	10***	2.5
Final Exam	100	25
Total	400	100

(\*) Normalized to an average of 75

(\*\*) Normalized to an average of 58.5

(\*\*\*) One point will be deducted for each absence.