

# FIU Department of Chemistry

## CHM 1032 "Chemistry and Society" Summer B 2004

**Meeting:** Mondays, Tuesdays, Wednesdays, and Thursdays 11.00 am - 12.15 pm, CP-151

**Instructor:** Konstantinos Kavallieratos, Ph. D. email: [kavallie@fiu.edu](mailto:kavallie@fiu.edu)

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**Office Hours:** Thursdays 12.30 pm - 1.30 pm or by appointment.

**Textbook:** "Chemistry for Changing Times" by Hill and Kolb, 9th Ed. (FIU Custom Edition)

**Class Website:** <http://www.fiu.edu/~kavallie/CHM1032.htm>, (required). This website will include required information about class such as daily notes, homeworks and answers to homeworks and news/updates.

If need access to the web supporting material of the textbook please use <http://cwx.prenhall.com/bookbind/pubbooks/hillkolb/>

### Tentative Class Schedule:

<i>Dates</i>	<i>Ch.</i>	<i>Topic</i>	<i>Practice Problems</i>	<i>e-homeworks due</i>
7/6	1	Intro: Science and Technology	1, 7, 11, 21, 29, 31	
7/7	1	Units, States of Matter	25, 27, 35, 39, 45-47, 49, 51-58, 65	7/12
7/8	2	Atoms/Atomic theory	5, 7, 9, 11, 13, 15, 17, 19, 21, 31,33, 39	7/13
7/12	3	Atomic Structure/Periodic table	3, 5, 7, 9, 11, 17, 25, 39, 43, 45, 47, 49, 51, 55, 61	7/14
7/13	4	Nuclear Chemistry/Radioactivity	1, 7, 9, 11, 15, 17, 23, 29, 33, 35, 39, 43, 45, 51, 67	7/15
7/14	5	Chemical Bonds/Formulas	1, 3, 7, 9, 11, 17, 19, 23, 27, 29, 31, 33, 47, 51, 53,	
7/15	5	Shapes of Molecules	35, 37, 45, 65, 71, 73, 75, 77, 81, 83, 87, 91, 99, 113	7/19
7/19	1-5	<b>Review</b>		
7/20	1-5	<b>EXAM 1</b>	<b>Bring Pencil!</b>	
7/21	6	Chemical equations/moles	1, 5, 15, 17, 19, 23, 25, 27, 29, 43, 45	
7/22	6	Chemical reactions/gas laws	47, 49, 69, 71, 73, 75, 77, 91, 95	7/26
7/26	7	Acids and bases, pH, acid rain	1, 3, 5, 7, 9, 11, 17, 23, 25, 27, 47, 49, 51	7/28
7/27	9	Organic Chemistry/Alcohols	1, 3, 5, 9, 21, 23, 27, 47, 48, 51, 53	
			15, 17, 29, 35, 39, 55, 57, 61, 63	7/29
7/28	10	Polymers/Plastics/Recycling	1, 5, 7, 9, 13, 19, 25, 31, 45, 47	8/2
7/29	14	Energy	1, 3, 5, 7, 9, 11, 13, 15, 19, 21, 31, 37, 51, 57	8/2
8/2	6-7/9-10/14	<b>Review</b>		
8/3	6-7/9-10/14	<b>EXAM 2</b>	<b>Bring Pencil!</b>	

8/4	15	The Chemistry of Life	1, 3, 9, 19, 23, 29, 33, 35, 51, 53, 61, 73, 75, 79	<b>8/9</b>
8/5	16, 18	Food, Health & Nutrition	1, 3, 7, 9, 17, 33, 47, 51, 61, 71, 77, 89, 91 (C16) 1, 3, 5, 19, 21, 45, 49, 63, 65 (C 18)	<b>8/10</b> <b>8/10</b>
8/9	19	Chemistry and Medicine/Drugs	1, 3, 5, 9, 11, 15,	
8/10	19/20	Illegal drugs-Poisons	39, 49, 57, 65, (C19), 7, 9, 15, 19, 35, 37, 45(C20)	<b>8/11</b>
8/11	12	Air and Air Pollution	1, 5, 7, 11, 13, 19, 21, 31, 35, 41, 45, 47, 49, 53, 57 12,15,16.18-20	<b>Review</b>
8/12	12,15,16,18-20	<b>EXAM 3</b>	<b>Bring Pencil!</b>	

- **The course grade will be based on the average of three non-cumulative exams.**

-**There are no make-up exams and you can only take the exam at the specified exam dates. Please remember to bring with you a No 2 pencil.**

- **Homework problems will be assigned for each book chapter. These are given to you for practice, review and thought. In addition you will be given a web-based e-homework for each chapter. You are expected to complete these by the due date in order to successfully practice for the exams. Answers will be posted shortly after the due dates.**

- **Attendance of the lectures is required. Most (but not all) of the material is included in the text. However, by attending the lectures you will have a better idea on which are the most important points you need to emphasize when studying.**

**Pop-quizzes may be given at random dates during class for up to 5% extra-credit. Those quizzes will check basic concepts just introduced in class.**

"Science is a wonderful thing if one does not have to earn one's living at it." -ALBERT EINSTEIN