

Feb. 7, 2009

Dear Chem 102 students,

We are falling behind according to the syllabus and to catch up I'm asking you to come prepared. Please read ahead so that the lectures will be optimized for you.

Eventually, I want to intersperse lecture classes with in-class group quizzes or bonus pop quizzes.

Outlines for Monday's and Wednesday's lectures:

Monday:

Please read the entire Chapter 11.

Skip Chapter 12.

Start reading Chapt 13 sections 1-2 (pages 607-618)

The lecture will focus only on key items like:

- 1) Components of a phase diagram
- 2) water's unusual properties
- 3) crystal unit cell structures:
 - a) simple cubic, b) face centered cubic
 - and c) body-centered cubic

Chapter 13 :

- 1) reaction rates & stoichiometry
- 2) reaction rate and concentration

Wednesday"

Please read pages 618-642 (finish Section 13.7)

Be prepared to focus on:

- 1) rate law and order of reaction
- 2) elementary steps
- 3) collision theory: Arrhenius Equation
- 4) elementary reactions: rate laws
- 5) reaction mechanisms

Please come prepared with the readings in case we do an in class activity.

Group Work:

To create more cooperative environments for the students, we will institute a certain amount of group work. It is hoped that the group work will encourage you to share your understanding with your classmates and help you form study groups. I am also hoping that you can clarify questions which may remain unclear to you – in case the lectures are not sufficient.

Group assignments are indicated in the list below. Some of you will be asked to act as “facilitators” at least for the first meeting – until the group gets organized and is able to choose its own facilitator.

Thank you very much for your cooperation. Please check your group assignments below:

There will be 9 groups.

Group 1	Group 2	Group 3
Khan, Ruby	Borden, Sarah	Doan, Diana Ngoc
Truong, Nancy Thanh	Foster, James Richard	Luna, Rebecca
Urpa, Lea Martta	Guerrero, Angela	Saiyasombat, Ben Pisit
Wang, David T.	Kattan, Josue Abraham	Tain, Justina
Ziemer, Matthew	Vora, Viral Ashwin	Velazco, Hugo Javier

Group 4	Group 5	Group 6
Aghajanian, Andreh	Evina, Patrick Julien	Chinn, Brandon Bing
Herrera, Maria Esther	Gao, Sarah Jean	Bradford, Michelle C
Puiu, Cristiana	La, An Hoang	Jones, Morgan Lawren
Sanchez, John Michael	Pitts, Michael Anthony	Pacesoler, Elodie
Sumi, Tritia Kayo	Roberts, Anne Hayden	Ta, Vinh John

Group 7	Group 8	Group 9
Balboa, Reneefelicia	Chaney, Jessica D	Alicante, Ronald
Bickham, Gregory	Gomez, Daisy	Buezo, Cindy Diana
Chitjian, Catrina Ann	Le, Diep Thi	Ho, Jeffrey N
Sterns, Aviva Miriam	Liu, Michelle	Ngo, Willkie Wylie
Thong, Lani Phun	Peng, Cindy	Torio, Aaron
		Yeh, Jaquelyn Rohui

Have a good weekend!

Dr. Santillan