Syllabus
CHM 2040.01 # 85490
Chemistry Fundamentals IB
Fall 2013
4:30 – 5:50 PM Tue, Thu, CL1 121

Instructor: Dr. Karin Y. Chumbimuni-Torres
Office: Physical Science Building Room PSB 203
Office Hours: Tue 6:00 - 7:30 PM, Fri 3:30 – 5:30 PM

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Course goal: To provide you with the understanding of the concepts and problems solving for all the topics to be covered as described below.

Topics to be covered: The topics to be covered in this course will include, but not be restricted to gases and their properties, quantum chemistry and atomic structure, the chemical periodicity, bonding and molecular structure, and introduction to organic chemistry.

 Dropbox: We will use dropbox to easy share syllabus, handouts, office hour information, assignments, etc. Join our class dropbox as soon as you get the invitation from the instructor to gain immediate access.

Worksheet: We will complete worksheets in every class with the assistance of the instructor and TAs. The worksheets will NOT be shared in the dropbox.

Extra-credit problems: (Optional) You will have the opportunity to get 5 extra points in each test by doing at least 60 problems, and show your work. You must submit your work on the day of the test. The Final Exam will not have extra points added.

Signing sheet: We will have sign-in sheet in some class, please sign with your name and PID. Not extra-credit will be given for that, it is just for the instructor statistics.

Grading: All exams, except the final, will be given during regularly scheduled class time. Your grade will be calculated on the basis of a percentage of total points. There will be no curve and grades will be assigned based on: 90% - 100% = A, 80% - 89% = B, 70% - 79% = C, 60% - 69% = NC, < 60% = F. In the event that you are absent for an exam (absence is only accepted in case you are sick and have a Doctor notice), the percentage score from your final exam will be substituted for the missed exam.

Five 50-minute test with 20 questions and worth 80 points will be given during the semester. The final exam will have 50 questions and will last 2 hrs 50 minutes. The FINAL exam will substitute the lowest test score, but a test will NOT substitute the FINAL exam. All exams will be cumulative, mandatory, and computer-graded multiple choice format. Five 25-minute quizzes will be given during the semester, the lowest quiz score will be dropped. Quizzes will not be cumulative. Quizzes will be worth 25 points each.

Scantron: 11 pink scantron will be needed along the semester. And the student will be responsible of filling out the PID, student name, test/quiz or exam number and date. Any mistake made on any of this item will give you a zero score; remember the scantron is computer-graded.
NO GRAPHING CALCULATORS ARE ALLOWED!!! Any use of electronic device (iPod, cell phone, MP3 player, computer...) during exams is strictly prohibited. Any use of such device will be considered an attempt to cheat on the exam and will result in a 0 on the grade.

<table>
<thead>
<tr>
<th>Grading Summary</th>
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<tbody>
<tr>
<td>5- Tests (80 points each)</td>
<td>400 points</td>
</tr>
<tr>
<td>1- Final exam</td>
<td>200 points</td>
</tr>
<tr>
<td>4- Quizzes (25 points each)</td>
<td>100 points</td>
</tr>
<tr>
<td>Total</td>
<td>700 points</td>
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A student ID card will be required for each exam. Calculators will be needed for the exams and the final. Exam questions will be taken from material covered in lecture, worksheet, and suggested problems. Exams, including the final exam, will be computer graded. It is the responsibility of the student to have a clean, flat, pink Test form (Scantron) with UCF logo, and a number 2 pencil for each exam. Students without the test form will not be allowed to take the exam.

The instructor reserves the right to modify the schedule, the testing procedure, and the grading basis if, in the professional judgment of instructor, such modification is in the best interest of fulfilling the course objectives and assuring the academic integrity of the course and the institution.

Academic Integrity: Academic integrity is at the center of the educational experience at UCF. Therefore students are expected to uphold the highest standards of academic integrity and not engage in not tolerate academic dishonesty. Academic dishonesty includes, but is not limited to, fabrication, cheating or plagiarism. Any violation of academic integrity will be investigated and, where warranted, the student will receive appropriate sanctions through the University’s Student Conduct Process. Please familiarize yourself with the current UCF Student Handbook. In particular, adherence to the Student Conduct Policy and Academic Integrity Policy will help to ensure that your learning and living experiences are founded on integrity.

Success in CHM 2041

UNDERSTANDING the various concepts is vital to learn chemistry. Students who attend classes and work consistently typically do very well in the course. So, get to the lectures and discussion sessions with GTAs on time, concentrate, and pay attention to the material being covered.
Read the chapter in course before coming to the lecture.
Review the worked exercises/examples in the textbook. Also at the end of each chapter is a list of chapter goals. Those serve as helpful review tools. Find time to work on the suggested end-of-chapter problems.
The instructor strongly encourages you to use office hours for discussing the material covered in classes and reviewing exams.
Get assistance ASAP, if needed. Please make use of the Student Academic Resource Center (SARC); Howard Phillips Hall 113; www.sarc.sdes.ucf.edu.

The Chemistry department has assistance every day to help students with problems solving or to understand chemistry concepts, they are located in the Chemistry Building third floor (CH321).

Student Disability
Please supply appropriate documentation and meet with the Student Disabilities Services, Farrell Commons, to discuss accommodations if required.
Problems suggested:

Chapter 5 (Pages 222-229):
35, 37, 40, 41, 44, 47, 49, 52, 58, 59, 64, 66, 69, 72, 75, 77, 80, 82, 83, 84, 86, 89, 91, 92, 95, 97, 99, 105, 109, 114, 120, 123, 127, 133, 134, 138.

Chapter 7 (Pages 310-313):
5, 6, 7, 9, 10, 11, 12, 14, 16, 18, 20, 32, 34, 37, 41, 43, 45, 46, 52, 54, 58, 59, 61, 63, 68, 70, 72, 75, 77, 80, 82, 83, 91, 93, 95, 106

Chapter 8 (Pages 353-357):
7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 24, 28, 29, 30, 32, 34, 35, 36, 37, 39, 43, 46, 48, 53, 55, 56, 57, 59, 61, 62, 63, 65, 67, 68, 69, 71, 73, 76, 80, 81, 83, 91, 93, 95, 98, 99, 100, 101, 102, 104, 105, 110, 111, 113, 119.

Chapter 9 (Pages 393-397):
2, 3, 4, 6, 8, 9, 11, 19, 20, 22, 23, 24, 26, 30, 32, 35, 38, 39, 41, 43, 44, 48, 49, 51, 53, 56, 59, 60, 62, 64, 66, 68, 69, 73, 74, 75, 77, 78, 81, 83, 85, 86, 88, 99, 100, 111, 114, 115.

Chapter 10 (Pages 447-451):
2, 4, 7, 9, 11, 14, 15, 17, 20, 23, 24, 27, 31, 34, 36, 38, 40, 41, 43, 45, 47, 49, 50, 52, 54, 56, 57, 60, 62, 64, 65, 67, 70, 72.