Syllabus
CHM 2040 – 0002 - Chemistry Fundamentals IA
Fall 2014

Instructor: Dr. Florencio Eloy Hernández
Office: Room 346 – Physical Sciences Building
Lecture Time: Mondays, Wednesdays and Fridays from 01:30 PM to 02:20 PM
Lecture Location: CB2-201
Office Hours: Monday and Tuesday 08:00 AM to 10:00 AM / Friday 04:00 PM to 06:00 PM.

Course Objective: To provide you with a fundamental understanding of the scientific method, measurement, classification of matter, atomic structure, periodicity and the periodic table, stoichiometry, molecules, ions, chemical compounds, chemical reactivity, and energy in chemical reactions.


Dropbox: Join the Fall 2014 – CHM_2040 Google Drive as soon as you get the invitation from the instructor to gain immediate access to class notes, handouts, syllabus, office hours information, homework assignments, videos, etc.

Twitter: As a supplemental interacting tool for this class the professor will be using a twitter account (username @Tweet_Elchemist) for immediate feedback on course materials, lectures, tests posting, extra grade activities, solved problems and solving problems assistance, course and Google Drive updates, exams reviews, to stimulate chemistry related discussions among peers, etc. GTAs will assist the instructor in answering any questions that you may have during the semester. The professor encourages you to follow him on his twitter. The hashtag for this semester is #FA2040. To follow him on Twitter you don’t need a Twitter account, however, if you want to communicate through this mean with the instructor and/or GTAs you must have one.

Note: Since this is not a personal social media blog the instructor recommends reading Brock University Social Media Guidelines (http://www.brocku.ca/marketing-communications/social-media/guidelines).

Self-Study Activities: This textbook provides access to MasteringChemistry™, which provides students with learning resources such as Live Examples, PowerPoint lecture notes, quizzes and much more. To use the self-study area of MasteringChemistry™, students register online at http://www.masteringchemistry.com. From there students can access the website’s resources for practice without any instructor involvement. THIS IS NOT MANDATORY!!!

Academic Program:

<table>
<thead>
<tr>
<th>Chapter #</th>
<th>Topic</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Matter, Measurements and Problem Solving</td>
<td>1</td>
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<tr>
<td>2</td>
<td>Atoms and Elements</td>
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<tr>
<td>3</td>
<td>Molecules, Compounds and Chemical Equations</td>
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<td>4</td>
<td>Chemical Quantities and Aqueous Reactions</td>
<td>138</td>
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<tr>
<td>6</td>
<td>Thermochemistry</td>
<td>246</td>
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</tbody>
</table>
The final grade (course grade) will be calculated based on the total percentage earned in exams + final.

\[
\begin{align*}
\text{Exam 1} &= 20\% \Rightarrow \text{Chap: 1&2} \\
\text{Exam 2} &= 25\% \Rightarrow \text{Chap: 3} \\
\text{Exam 3} &= 25\% \Rightarrow \text{Chap: 4} \\
\text{Final} &= 30\% \Rightarrow \text{Chap: 1-6}
\end{align*}
\]

Exams 1-3 will be 50 minutes each, final will last 150 minutes. All exams will be cumulative, mandatory, and computer-graded multiple choice format. Since the exam dates are given well in advance, there will be no make-up exams except in the case of illness. A written doctor’s exemption will be required and an oral make-up exam could be administrated. In the event that one or more exams are missed, your grade on the final exam will substitute one missing grade. The remaining missing grades will be computed as zeros. If you do not miss any exam, your grade on the final exam will replace the lowest grade among those in any of your previous exams. This rule is only valid when your grade on the final is higher than the one to be replaced. Exams questions will be taken from material covered in lecture, assigned reading, and suggested problems. Exams 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.

**Note:** Students without a valid UCF ID and the test form will not be allowed to take the exam.

**Grading:** All exams 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:

\[
\begin{align*}
90\% - 100\% &= \text{A} \\
75\% - 89\% &= \text{B} \\
60\% - 74\% &= \text{C} \\
50\% - 59\% &= \text{NC} \\
< 49\% &= \text{F}
\end{align*}
\]

**Calculator Policy:** Only basic and scientific calculators (without graphic functions) are allowed for all exams in class. 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.

**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 nor 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.

**Classroom Conduct**
Disruptive behavior is not tolerated. The instructor will consult with students consistently interrupting classroom routine. Students are subject to removal from class permanently. Cell phones and pagers must be on silent mode during class and tests. Laptop computers are allowed for note taking purposes only. No audio or video recording is allowed without the instructor’s authorization.
Accommodations for the differently-able students:

Students with disabilities who qualify for academic accommodations must present a letter from the Students Disabilities Services (SDS) and discuss specific needs with the instructor, preferably within the first two weeks of class. The SDS determines accommodations based on appropriate documentation of disabilities (Ferrell Commons 185, UCF main Campus; sds@ucf.edu; 407/823-2371). [http://sds.sdes.ucf.edu/faculty/resources](http://sds.sdes.ucf.edu/faculty/resources).

Audio Recording by Students: In order to respect the integrity and effectiveness of the classroom experience; protect students and faculty dignity and privacy; respect faculty and University rights in instructional materials; and comply with copyright law; students are not permitted to record a class themselves by any means without prior express authorization of the faculty member. Only students with a disability can request to audio recording class lectures as an accommodation. Please contact SDS to complete the agreement release form that the faculty member needs to sign to protect his/her copyright to the course material.

Success in CHM 2040

In the best interest of fulfilling the course objectives and assuring the academic integrity of the institution, the instructor reserves the right to modify the topics, schedule and/or evaluation procedures.

* Do not lobby/negotiate for a grade!
* Students who attend classes and work consistently typically do very well in the course. So, get to lectures and discussion sessions with GTAs on time, concentrate, and pay attention to the material being covered!
* UNDERSTANDING the various concepts is vital to learn chemistry. Memorizing is a recipe for disaster!
* Review lecture material early and often. Do not wait until the last few minutes before a test to do the necessary revision.
* 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. Practice makes perfection.

* 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](http://www.sarc.sdes.ucf.edu).

MAKE YOUR GRADE PART OF YOUR LEARNING!
# TENTATIVE SCHEDULE FALL’13

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapter</th>
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</thead>
<tbody>
<tr>
<td>1: August 18 – August 22</td>
<td>Matter, Measurements and Problem Solving</td>
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<tr>
<td>2: August 25 – August 29</td>
<td>Matter, Measurements and Problem Solving</td>
</tr>
<tr>
<td>3: September 01 – September 05 (09/01/2014 Holiday)</td>
<td>Atoms and Elements</td>
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<tr>
<td>4: September 08 – September 12</td>
<td>Atoms and Elements</td>
</tr>
<tr>
<td>5: September 15 – September 19</td>
<td>Atoms and Elements</td>
</tr>
<tr>
<td>6: September 22 – September 26</td>
<td>Molecules, Compounds and Chemical Equations</td>
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<td>7: September 29 – October 03</td>
<td>Molecules, Compounds and Chemical Equations</td>
</tr>
<tr>
<td>8: October 06 – October 10</td>
<td>Molecules, Compounds and Chemical Equations</td>
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<td>9: October 13 – October 17</td>
<td>Chemical Quantities and Aqueous Reactions</td>
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<tr>
<td>10: October 20 – October 24</td>
<td>Chemical Quantities and Aqueous Reactions</td>
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<tr>
<td>11: October 27 – October 31</td>
<td>Chemical Quantities and Aqueous Reactions</td>
</tr>
<tr>
<td>12: November 03 – November 07</td>
<td>Thermochemistry</td>
</tr>
<tr>
<td>14: November 17 – November 21</td>
<td>Thermochemistry</td>
</tr>
<tr>
<td>15: November 24 – November 28 (27-29/11/2014 Holiday)</td>
<td>Thermochemistry</td>
</tr>
<tr>
<td>16: December 01</td>
<td>Review</td>
</tr>
<tr>
<td>Monday 12/08/2014 01:00 PM – 03:50 PM</td>
<td>FINAL EXAM</td>
</tr>
</tbody>
</table>

**Holidays:**
- Labor Day: Mon September 01, 2014
- Veteran’s Day: Monday, November 11, 2014
- Thanksgiving: November 27 – 29, 2014

**Important dates during the Fall 2014 semester:**
- Registration on myUCF: August 17, 2014 11:59 PM
- **Classes Begin:** Monday, August 18, 2014
- **Late Registration:** Monday, August 18, 2014 – Friday, August 22, 2014
- **Last Day of Full Refund:** Thursday, August 21, 2014
- **Payment Deadline:** Friday, August 29, 2014
- **Grade Forgiveness Deadline:** Monday, October 27, 2014 11:59 PM
- **Withdrawal Deadline:** Monday, October 27, 2014 11:59 PM
- **Bright Futures-Award Repayment Deadline for Course Withdrawal:** Friday, November 28, 2014
- **Classes End:** Monday, December 01, 2014
- **Final Examination Period:** Wednesday, December 03, 2014 - Tuesday, December 09, 2014 ([http://registrar.ucf.edu/exam/2014/fall](http://registrar.ucf.edu/exam/2014/fall))
- **Grades available in myUCF:** Tuesday, December 16, 2014

**Special Events:**
- Homecoming week: Monday, October 20, 2014 – Saturday, October 25, 2014 12:00 PM
- Homecoming Game: Saturday, October 25, 2014