Syllabus  
CHM 2045C  Honors Chemistry Fundamentals I  Fall 2013  
Section 0232 – 4.0 credit hours

Instructor: Dr. Lei Zhai  
Office/Phone: 12424 Research parkway, Room 424 Research Pavilion / (407) 882-2847  
E-mail: lzhai@ucf.edu  
Office Hours/Room (On campus): Monday and Wednesday 11:30 pm - 12:20 pm in CH207 (Chemistry bldg.) or by appointment.  
Lab (Recitation): Jessica Chappell

<table>
<thead>
<tr>
<th>CHM 2045H.0237</th>
<th>Chappell, Jessica</th>
<th>BA 205</th>
<th>M</th>
<th>1:30PM – 2:20PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045H.0238</td>
<td>Chappell, Jessica</td>
<td>BA 205</td>
<td>W</td>
<td>1:30PM – 2:20PM</td>
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</tbody>
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Class Time/Room: Monday, Wednesday, & Friday, 12:30 pm – 1:20 pm, BHC 0128 (attendance is required).

Course Objective: The Chemistry Fundamentals 2045/2046 series is intended to provide science students with a solid understanding of the foundation concepts in chemistry.

The objectives are:
1. To help students understand the fundamental concepts of modern chemistry;
2. To help students learn to apply these concepts for solving chemical problems.

Text/Ancillaries:  
2. Access code for “Mastering Chemistry”, on-line study and homework system (required)
3. Solutions manual (recommended)

Topics: Chapters 1 through 10 will be covered from the text. Areas of study include:

- Matter, Measurement and Problem Solving (Ch. 1)
- Atoms and Elements (Ch. 2)
- Molecules, Compounds, and Chemical Equations (Ch. 3)
- Chemical Quantities and Aqueous Reactions (Ch. 4)
- Periodic Properties of Elements (Ch. 8)
- Thermal Chemistry (Ch. 6)
- Chemical Bonding (Ch. 9, 10)
- Quantum Mechanical Model of the Atom (Ch. 7)

Course Format: The course will follow the chapters of the text in sequence. Due to our limited contact time, lectures may not cover every subject in a given chapter comprehensively; however, students are responsible for all material presented in the
textbook chapter. Topics will be covered according to the schedule listed below. This schedule is tentative and subject to change, depending upon our rate of progress.

Evaluation: Progress in the course will be gauged from points earned in three exams, online homework, quizzes, a cumulative lab score, and a comprehensive final exam according to the schedule below. A syllabus for the lab will be provided separately.

Point Weightings

<table>
<thead>
<tr>
<th>Component</th>
<th>Weighting</th>
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<tbody>
<tr>
<td>1 Exam 1</td>
<td>15%</td>
</tr>
<tr>
<td>2 Exam 2</td>
<td>15%</td>
</tr>
<tr>
<td>3 Exam 3</td>
<td>15%</td>
</tr>
<tr>
<td>4 Homework</td>
<td>15%</td>
</tr>
<tr>
<td>5 Quiz</td>
<td>10%</td>
</tr>
<tr>
<td>6 Final exam</td>
<td>30%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

The final grade earned will be determined by the percentage of weighted total points using the scale shown below. There will be no curve and grades will be assigned based on this scale:

Grading Schedule

<table>
<thead>
<tr>
<th>Percentage of weighted points</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 – 100</td>
<td>A</td>
</tr>
<tr>
<td>87 – 89</td>
<td>A -</td>
</tr>
<tr>
<td>83 – 86</td>
<td>B +</td>
</tr>
<tr>
<td>80 – 82</td>
<td>B</td>
</tr>
<tr>
<td>77 – 79</td>
<td>B -</td>
</tr>
<tr>
<td>73 – 76</td>
<td>C +</td>
</tr>
<tr>
<td>70 – 72</td>
<td>C</td>
</tr>
<tr>
<td>67 – 69</td>
<td>C -</td>
</tr>
<tr>
<td>60 – 66</td>
<td>D</td>
</tr>
<tr>
<td>&lt; 60</td>
<td>F</td>
</tr>
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</table>

On-line Homework:

*Each student must register themselves for Mastering Chemistry.* Homework assignments are due each week on Sunday evening at 11:00 pm. *Note: Homework assignments are also scheduled for the Sundays before and at the end of Spring Break.* No credit will be awarded for late assignments. Students have 6 attempts at each problem. Points are awarded for correct answers, minus a deduction for incorrect answers.
Extra Credit! Students can use hints in Mastering Chemistry as needed. However, if a student answers a question successfully without using hints, they will be awarded an additional 1/3rd of the points for the question. If you get stuck on a question, search out the answer using the text before resorting to hints.

Creating your Mastering Chemistry user account
1. Use Internet Explorer for all work in Mastering Chemistry.
2. Navigate to http://www.masteringchemistry.com
3. Follow the instructions to register as a new user.
4. When asked to enter your student ID, please input your PID.
5. When queried, enter the access code that came with your text book package. The access code can also be purchased separately at masteringchemistry.com.
6. Enter the Course ID for our section. Our course ID is: CHEMISTRYISCOOL

Exam Policies and Format:

Absence from tests (quizzes and exams)
- Make-up tests will be administered by appointment when a scheduled test is missed due to:
  - Authorized University events and co-curricular activities
    - e.g. football or cheerleading competition, See: #4-401 at http://www.ucf.edu/president/policies.php.
  - Incapacitating illness that occurs on the day of the scheduled test.
- Students who miss a test due to illness must provide the instructor a signed note from their health provider specifically stating that they were unable to take the test on the scheduled day due to the malady.
- Exams missed without an approved University excuse will receive a zero.

Content of exams
- Exams will test both concepts and ability to solve chemical problems.
- Problems must be worked out showing correct units throughout the calculation. Final answers must be given in scientific notation using the correct number of significant digits and the correct units.
- Exams will be progressively comprehensive, meaning exams will emphasize material covered in the completed unit, but will also draw upon information covered in previous units.
- The final exam will be comprehensive of all material covered in the course.

Use of calculators
- Students may use electronic calculators during tests, but the following types are prohibited:
  1. Graphing calculators
  2. Calculators that enable storage and recall of functions
  3. Calculators built into cell phones
- Violations of this rule will be regarded as cheating and will result in a zero for that test.
Syllabus
CHM 2045C Honors Chemistry Fundamentals I Fall 2013
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Student Conduct:
Violations of the student code of conduct as set forth in the Golden Rule will not be tolerated (see http://www.goldenrule.sdes.ucf.edu).

Classroom Courtesy:
All students are required to conduct themselves in a courteous and professional manner so that everyone in the class can learn, free from interruptions and distractions. This means that:
- Cell phones are off and not used at all during class.
- Students do not engage in conversation apart from topic of class discussion.
- Students come to class on time. If you arrive late, please enter quietly and sit toward the back.

Please do all you can to help maintain a positive and productive classroom environment.

Disability Access Statement:
The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. This syllabus is available in alternate formats upon request. Students with disabilities who need accommodations in this course must contact the professor at the beginning of the semester to discuss needed accommodations. No accommodations will be provided until the student has met with the professor to request accommodations. Students who need accommodations must be registered with Student Disability Services, Student Resource Center Room 132, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor. Further information about UCF student disability services is available at http://www.sds.sdes.ucf.edu and sds@mail.ucf.edu.

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

Important Dates:
10/28 Withdraw Deadline
Friday, December 06, 2013 10:00 AM – 12:50 PM (Final Exam)

Have a great semester!