Fall 2015

CHEM 1007

Hank Hauck

University of New Orleans

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Course Syllabus

General Chemistry Lab I—CHEM 1007

FALL 2015

Instructors: Hank F. Hauck, Jr, hhauckjr@uno.edu, CSB 110
Office Hours: M and F: 10:00-11:00 AM
and T, W & Th – 12:30 to 4 PM
- If I am not in my office, Check SC 1070, 1074, 1086, 1008 or 1024

If I am not available: See Lea Gustin.

College: University of New Orleans
Semester: Fall 2015
Credit Hours: 1
Class Time: T – 9:30 AM-12:30 PM, SCI 1008
T – 2-5 PM, SCI 1008/1024
T – 5-8 PM, SCI 1008
W – 2-5 PM, SCI 1008/1024
Th – 2-5 PM, SCI 1008/1024
Th – 5-8 PM, SCI 1008

Texts: Lab Manual available only at UNO bookstore

Prerequisite: Completion or enrollment in CHEM 1017

Course Description:

This lab course is designed to complement CHEM 1017, General Chemistry 1. Basic lab techniques will be learned throughout the term as you conduct experiments corresponding to the topics in the lecture class textbook, Chemistry, A Molecular Approach by Nivaldo Tro, 1st, 2nd or 3rd Edition.

Student Learning Objectives:

After successfully completing this course, students will have a general understanding of several key concepts in chemistry, including: density; classification and identification of matter; atoms, molecules and stoichiometry; gas laws; thermochemistry and calorimetry; quantum mechanics; periodic trends and properties; and Lewis Theory and molecular shape. In addition, students will be able to apply these basic concepts to understanding basic phenomena occurring in everyday life.

Grading and Classroom Procedures: A missed assignment will be a zero unless there is an excused, documented absence. You must confer with your TA and with your professor in advance. The drop date is Sept. 8 for nothing to appear on transcript and Oct. 14 for a W. There will be 8 regular lab reports that will be worth 50 points each for a total of 400 points, and 2 formal lab reports (Labs #4 and #6) that will be worth 100 points each. There will also be a mid term exam worth 100 points and a final exam worth 150 points. Participation/lab performance counts for 50 points and quizzes will be worth a total of 100 points. Therefore, a grand total of 1000 points is possible. A = 90% (900 pts); B = 80% (800); C = 70% (700); D= 60% (600).
GRADING SUMMARY and TABULAR SCHEDULE

8 Regular Lab reports, 50 points each, 400 points
2 Formal Lab reports, 100 points each, 200 points
Quizzes (100) and Participation (50) 150 points
Mid Term Exam 100 points
Final Exam (during last week of classes) 150 points

Total points possible 1000 points

Raw scores will be posted on Moodle, as will your final letter grade. HOWEVER, DO NOT TRUST any % calculated by Moodle. If you are confused, talk with Dr. Hauck.

<table>
<thead>
<tr>
<th>Dates:</th>
<th>Exp. #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 25, 26, 27</td>
<td>0, T-1, T-2</td>
<td>Safety, Orientation, Syllabus Review and Tutorials for Success (General)</td>
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<tr>
<td>Sept. 1, 2, 3</td>
<td>1</td>
<td>Exp: 1 What’s the Matter</td>
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<tr>
<td>9/8, 9, 10</td>
<td>2</td>
<td>Exp 2: From Atoms Come Molecules, Part 1</td>
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<tr>
<td>9/15, 16, 17</td>
<td></td>
<td>Part 2</td>
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<tr>
<td>9/22, 23, 24</td>
<td>3</td>
<td>Exp 3: What’s the Formula?</td>
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<tr>
<td>Sept. 29, 30 &amp;</td>
<td>4</td>
<td>Exp 4: Gas Wars – Formal</td>
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<tr>
<td>Oct 1</td>
<td></td>
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<tr>
<td>10/6, 7 &amp; 8</td>
<td>Mid Term Exam</td>
<td>Mid Term Practical Exam – Taken in the Lab on weeks 1-6</td>
</tr>
<tr>
<td>Oct. 13, 14, 15</td>
<td>OFF</td>
<td>Mid Semester Break</td>
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<tr>
<td>10/20, 21 &amp; 22</td>
<td>5</td>
<td>Exp 5: How Much Heat</td>
</tr>
<tr>
<td>Oct. 27, 28, 29</td>
<td>6</td>
<td>Exp 6: Which is the Best Fuel? – Formal</td>
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<tr>
<td>Nov. 3, 4, 5</td>
<td>7</td>
<td>Exp 7: The Quantum Mechanical Model of the Atom</td>
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<tr>
<td>Nov. 10, 11, 12</td>
<td>8</td>
<td>Exp 8: Periodic Table and Periodic Law</td>
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<tr>
<td>Nov. 17, 18, 19</td>
<td>9 &amp; 10</td>
<td>Exp 9: What Makes a Solution Colored or Colorless?</td>
</tr>
<tr>
<td>Nov. 24, 25, 26</td>
<td>NO LABS</td>
<td>Exp 10: Lewis Theory &amp; Molecular Geometry &amp; Review for Final</td>
</tr>
<tr>
<td>Dec. 1, 2 &amp; 3</td>
<td>FINAL Exam</td>
<td>FINAL EXAM – NORMAL LAB MEETING TIME</td>
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</tbody>
</table>


FINAL EXAM ON Dec. 1, 2, 3 at usual lab start time. Rooms will be announced the week before the final or the week of the final.
Disabilities

Students who qualify for services will, whenever possible, receive the academic modifications for which they are legally entitled.

Academic Integrity

Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the UNO Judicial Code for further information, including the consequences for acts of academic dishonesty. The Code is available online at http://www.studentaffairs.uno.edu/pdfs/StudentCode.pdf.

Plagiarism is a serious offense that can result in failure in a course and dismissal from the university. Students must make special efforts to learn what constitutes plagiarism and how to properly utilize and cite the work of others.

“Plagiarize 1. To steal and use (the ideas or writings of another) as one’s own. 2. To appropriate passages or ideas from (another) and use them as one’s own . . . To take and use as one’s own the writings or ideas of another.” - definition from The American Heritage Dictionary of the English Language, W. Morris, Ed. American Heritage publishing Company, Inc. and Houghton Mifflin Company: New York, 1969.

Verbatim, or word for word copying, is the most obvious form of plagiarism. However, substantially copying the ideas or presentation of another, even when wording has been changed, can also constitute plagiarism.

Free Tutoring for Many Courses is Available On-Campus from the UNO Learning Resources Center: http://lrc.uno.edu/

Free Chemistry Tutoring Available in the Chemistry Learning Center (CSB 101)

1International students who are dismissed from the university can lose their visa status, requiring them to return to their home country.