GENERAL CHEMISTRY LABORATORY I

Fall 2011

2:00 - 2:50 pm, M, CNSB 100 (Prelab)
3:00 - 5:00 pm, M (Lab)
CNSB 233 (Sect 40246), CNSB 235 (40247)

INSTRUCTOR INFORMATION

<table>
<thead>
<tr>
<th>Instructor:</th>
<th>Dr. F. H. Watson</th>
<th>Dr. G. L. Findley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section</td>
<td>Prelab and Section 40246</td>
<td>Section 40247</td>
</tr>
<tr>
<td>Office:</td>
<td>CNSB 227</td>
<td>CNSB 202</td>
</tr>
<tr>
<td>Office Hours:</td>
<td>11:00 am - 1:50 pm MTuW</td>
<td>9:00 am - 12:00 pm MWF</td>
</tr>
<tr>
<td>Telephone:</td>
<td>342-1933</td>
<td>342-1835</td>
</tr>
<tr>
<td>email:</td>
<td><a href="mailto:watson@ulm.edu">watson@ulm.edu</a></td>
<td><a href="mailto:findley@ulm.edu">findley@ulm.edu</a></td>
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COURSE

Content: A laboratory course to accompany CHEM 1007.

Goals/ Objectives: Mastery of selected laboratory methods that illustrate principles introduced in General Chemistry I (CHEM 1007).

REQUIREMENTS

Prerequisite: Credit or registration in CHEM 1007.


Material Covered: Lab Sessions 1-12. (Lab Session 13 is the Make-up laboratory.)

Attendance: It is your responsibility to attend and to be punctual. Do not come late. Any laboratory missed due to an excused absence must be made up during the scheduled Make-up laboratory. To obtain permission to make up a laboratory, you must verify with the course instructor whether or not an absence is excused according to the ULM Student Policy Manual (www.ulm.edu/studentpolicy). (This policy manual also provides information concerning academic integrity and student services.)
EVALUATION

Laboratories: There are 13 laboratories, including the Syllabus/Safety Lecture/Check-in laboratory and the Final Exam/Check-out laboratory. After the Syllabus/Safety Lecture/Check-in laboratory, each of the next 11 laboratories is worth 15 pts, apportioned between the prelab quiz (5 pts) and the laboratory exercise (10 pts). (In order to receive full marks on a laboratory exercise that results in a numerical answer, each student must present an experimental result that is within ±5% of the expected answer.) The Final Exam/Check-out laboratory includes a comprehensive (excluding Lab Session 13) final quiz (35 pts). (If a student misses a prelab quiz because of an excused absence, this work may be made up -- with permission of the instructor -- by taking a comprehensive (excluding Lab Session 13) make-up quiz that is given during the Make-up laboratory on Nov 28.)

Grading:

<table>
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<tr>
<th>Activity</th>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>prelab quizzes (11, 5pts each)</td>
<td>55 pts</td>
<td>A 180 - 200 pts</td>
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<tr>
<td>laboratory exercises (11, 10 pts each)</td>
<td>110 pts</td>
<td>B 160 - 179</td>
</tr>
<tr>
<td>final quiz</td>
<td>35 pts</td>
<td>C 140 - 159</td>
</tr>
<tr>
<td>COURSE TOTAL</td>
<td>200 pts</td>
<td>D 120 - 139</td>
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<td></td>
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<td>F &lt; 120</td>
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Mid-term grades will be posted on-line. Mid-term grades indicate a student’s status at mid-semester only and do not indicate the final performance outcome of a student.

SCHEDULE OF LABORATORIES

(Each prelab quiz covers the laboratory exercise material scheduled for that day.)

- Aug 22 Syllabus/Safety Lecture/Check-in
- Aug 29 quiz Introductory Exercises
- Sep 12 quiz Oxygen
- Sep 19 quiz Preparation of Sodium Chloride
- Sep 26 quiz Law of Definite Proportions/Hydrates
- Oct 3 quiz Hydrogen and the Activity Series of Metals
- Oct 10 quiz Acid-Base Titration
- Oct 17 quiz Antacids
- Oct 24 quiz Calorimetry, Heat of Reaction
- Oct 31 quiz Charles’ Law
- Nov 7 quiz Determination of the Molar Mass of Oxygen
- Nov 14 quiz Valence, the Combining Capacity of Elements and Molecules
- Nov 28 Final Exam/Check-out
  - Make-up quiz (comprehensive)/
  - Make-up lab (Copper Analysis by Complexometric Titration)

NOTE: You must wear eye protection at all times while in the laboratory. Hats, shorts, skirts, bare midriffs and open-toed shoes are not allowed in the laboratory. Cell phones are not permitted. Failure to comply with these rules will result in your being ejected from the laboratory. A calculator must be brought to every class meeting.

DEPARTMENTAL DROP POLICY (www.ulm.edu/chemistry/courses/drop_policy.html) For students who are currently enrolled in CHEM 1007 (and have not previously passed CHEM 1007), if you drop CHEM 1007 you cannot remain in CHEM 1009 without permission. The final day to drop a class is Oct 28.
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Fall 2011

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3:00 - 5:00 pm, Tu (Lab)
CNSB 230 (Sect 40248), CNSB 232 (40249)

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Aug 30 quiz Introductory Exercises
Sep  6 quiz Oxygen
Sep 13 quiz Preparation of Sodium Chloride
Sep 20 quiz Law of Definite Proportions/Hydrates
Sep 27 quiz Hydrogen and the Activity Series of Metals
Oct  4 quiz Acid-Base Titration
Oct 18 quiz Antacids
Oct 25 quiz Calorimetry, Heat of Reaction
Nov  1 quiz Charles’ Law
Nov  8 quiz Determination of the Molar Mass of Oxygen
Nov 15 quiz Valence, the Combining Capacity of Elements and Molecules
Nov 29 Final Exam/Check-out
Make-up quiz (comprehensive)/
Make-up lab (Copper Analysis by Complexometric Titration)

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