INSTRUCTOR INFORMATION

<table>
<thead>
<tr>
<th>Instructor:</th>
<th>Dr. G. L. Findley</th>
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<tr>
<td>Office:</td>
<td>SUGAR 304b</td>
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<tr>
<td>Office Hours:</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 Apr 29.)

Grading:

<table>
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<tr>
<th>prelab quizzes (11, 5pts each)</th>
<th>55 pts</th>
<th>A</th>
<th>180 - 200 pts</th>
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<td>laboratory exercises (11, 10 pts each)</td>
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<td>B</td>
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<td>200 pts</td>
<td>D</td>
<td>120 - 139</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.)

Jan 14  Syllabus/Safety Lecture/Check-in
Jan 28  quiz  Introductory Exercises
Feb  4  quiz  Oxygen
Feb 18  quiz  Preparation of Sodium Chloride
Feb 25  quiz  Law of Definite Proportions/Hydrates
Mar  4  quiz  Hydrogen and the Activity Series of Metals
Mar 11  quiz  Acid-Base Titration
Mar 18  quiz  Antacids
Mar 25  quiz  Calorimetry, Heat of Reaction
Apr  8  quiz  Charles’ Law
Apr 15  quiz  Determination of the Molar Mass of Oxygen
Apr 22  quiz  Valence, the Combining Capacity of Elements and Molecules
Apr 29  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 Mar 22.
CHEM 1009-60233

GENERAL CHEMISTRY LABORATORY I

Spring 2013

2:00 - 2:50 pm, Tu, SUGAR 101 (Prelab)
3:00 - 5:00 pm, Tu, SUGAR 304 (Lab)

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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 Apr 30.)

Grading:

| prelab quizzes (11, 5pts each) | 55 pts | A | 180 - 200 pts |
| laboratory exercises (11, 10 pts each) | 110 pts | B | 160 - 179 |
| final quiz | 35 pts | C | 140 - 159 |
| COURSE TOTAL | 200 pts | D | 120 - 139 |
| | | F | < 120 |

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SCHEDULE OF LABORATORIES

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

Jan 22 Syllabus/Safety Lecture/Check-in
Jan 29 quiz Introductory Exercises
Feb 5 quiz Oxygen
Feb 19 quiz Preparation of Sodium Chloride
Feb 26 quiz Law of Definite Proportions/Hydrates
Mar 5 quiz Hydrogen and the Activity Series of Metals
Mar 12 quiz Acid-Base Titration
Mar 19 quiz Antacids
Mar 26 quiz Calorimetry, Heat of Reaction
Apr 9 quiz Charles’ Law
Apr 16 quiz Determination of the Molar Mass of Oxygen
Apr 23 quiz Valence, the Combining Capacity of Elements and Molecules
Apr 30 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.

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GENERAL CHEMISTRY LABORATORY I

Spring 2013

2:00 - 2:50 pm, Th, SUGAR 305 (Prelab)
3:00 - 5:00 pm, Th, SUGAR 304 (Lab)

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

Jan 17  Syllabus/Safety Lecture/Check-in
Jan 31  quiz Introductory Exercises
Feb  7   quiz Oxygen
Feb 21  quiz Preparation of Sodium Chloride
Feb 28  quiz Law of Definite Proportions/Hydrates
Mar  7   quiz Hydrogen and the Activity Series of Metals
Mar 14  quiz Acid-Base Titration
Mar 21  quiz Antacids
Mar 28  quiz Calorimetry, Heat of Reaction
Apr 11  quiz Charles’ Law
Apr 18  quiz Determination of the Molar Mass of Oxygen
Apr 25  quiz Valence, the Combining Capacity of Elements and Molecules
May  2   Final Exam/Check-out
         Make-up quiz (comprehensive)/
         Make-up lab (Copper Analysis by Complexometric Titration)

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