

INTRODUCTORY CHEMISTRY LABORATORY I

Spring 2009

2:00 - 2:50 pm, W, CNSB 144 (Prelab)

3:00 - 5:00 pm, W, CNSB 233 (Lab)

INSTRUCTOR INFORMATION

Instructor:	Dr. G. L. Findley
Office:	CNSB 202
Office Hours:	11:00 am - 1:00 pm M-F
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COURSE

Content: A laboratory course to accompany CHEM 101.

Goals/

Objectives: Mastery of selected laboratory methods that illustrate principles covered in Introductory Chemistry I (CHEM 101).

REQUIREMENTS

Prerequisite: Credit or registration in CHEM 101.

Text: *Chemistry 103 Laboratory Manual* (Department of Chemistry, ULM, 2008 - 2009).
Online manual at www.ulm.edu/chemistry/courses/manuals/labmanuals.html.

Material

Covered: Pages 5 - 106; and 113 - 133. (Pages 37 - 45 constitute 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 meeting and the Check-out/Make-up laboratory. After the Syllabus/Safety Lecture meeting, each of the next 11 laboratories is worth 20 pts, apportioned between the prelab quiz (10 pts) and the laboratory exercise (10 pts). The Check-out/Make-up laboratory includes a Make-up quiz (10 pts). (While all students must check out, the Make-up laboratory and Make-up quiz may be taken only with the permission of the instructor.)

Grading:

prelab quizzes (11, 10 pts each)	110 pts	A	198 - 220 pts
laboratory exercises (11, 10 pts each)	<u>110 pts</u>	B	176 - 197
COURSE TOTAL	220 pts	C	154 - 175
		D	132 - 153
		F	< 132

Mid-term grades will be posted on-line for students to view via Arrow. 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
Jan 21	quiz	Check-in/Finding the relationship: Graphing analysis (p. 119)
Jan 28	quiz	Measurements (p. 11)
Feb 4	quiz	Chemical nomenclature (p. 19)
Feb 11	quiz	Molecular geometry (p. 113)
Feb 18	quiz	Exploring periodic trends (p. 47)
Mar 4	quiz	Counting by weighing (p. 101)
Mar 11	quiz	Chemical change (p. 71)
Mar 18	quiz	Hydrates (p. 55)
Mar 25	quiz	Gas laws (p. 27)
Apr 1	quiz	Preparation of acid and base solutions (p. 79)
Apr 22	quiz	Acid-base titration using computers (p. 129)
Apr 29		Check-out/Make-up quiz/Make-up lab: Physical properties (p. 37)

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.

DEPARTMENTAL DROP POLICY (www.ulm.edu/chemistry/courses/drop_policy.html) For students who are currently enrolled in CHEM 101 (and have not previously passed CHEM 101), if you drop CHEM 101 you cannot remain in CHEM 103 without permission. The final day to drop a class is March 19.