

Chemistry 103L Syllabus, Fall 2018

Instructor: J. Molloy **Info:** ISC Rm 2031, ext. 12546; jcmolloy@wm.edu

Laboratory Instructors: Bebout, Landino, Walk, Young

Lab T.A. _____

Laboratory Coordinators: Ms. Shieh (ISC Rm 1059, ext. 12678);
Mrs. Hopkins (ISC Rm 1037, ext. 12543)

Chem 103L/103 is a cognate lab/lecture courses.

Objectives: Laboratory techniques in chemistry; applications of chemical fundamentals

Safety: Everyone is responsible for safe practices in the laboratory. Information is available in this laboratory manual. Students must wear approved goggles in the laboratory. The safety agreement must be signed before students are allowed in the laboratory.

Instructors, at their discretion, can lend goggles at a 10% grade penalty for the experiment.

Grading:

Experiments:	50%	Final:	20%
Discussion Grades:	10%	Lab Quizzes:	20%

A: 100-95, A-: 94-90, B+: 89-87, B: 86-83, B-: 82-80, C+: 79-77,
C: 76-73, C-: 72-70, D+: 69-67, D: 66-63, D-: 62-60, F < 60

Course Structure

An online pre-lab discussion precedes the laboratory experiment itself and is required before attending. You must attend the lab as you registered (no section-hopping) expect with express permission.

Schedule of Discussions and Experiments

Experiment date	Exp. #	Experiment
Sept. 5,6	1	Measurements & Calculations; also Appendix A
Sept. 12,13	2	Data Analysis and Graphing
Sept. 19,20	3	Estimation of Avogadro's Number Lab Quiz
Sept. 26,27	4	Absorption Spectrophotometry
Oct. 3,4	5	Mass Relationships in Chemical Reactions
Oct. 10,11	6	Neutralization Titrations Lab Quiz
Oct. 17,18	7	Redox Titrations—Determination of Hydrogen Peroxide
Oct. 24,25	8	Enthalpy Measurements and Hess' Law
Oct. 31-Nov. 1	9	Some Properties of Gases Lab Quiz
Nov. 7,8	10	The Molar Volume of Oxygen
Nov. 14,15	11	Chemical Kinetics: The Reaction of Iodide with Peroxydisulfate
Nov. 21,22		Happy Thanksgiving!
Nov. 28,29	12	Photometric Determination of an Equilibrium Constant Lab Quiz

There are **no makeup labs**; labs may be made up during the week offered on a space available basis, per the excused absence policy; see Ms. Shieh.

Questions about grading, excused absences, and other issues should be directed to J. Molloy.

Final Exam The final examination will be administered during the last **laboratory** period; **Wednesday, Dec. 5** or **Thursday, Dec. 6**.