

CHEMISTRY 354 Inorganic Laboratory

Spring 2012

G. W. Rice Section **1-3** (ISC 1050, ext. 12049, gwrice@wm.edu)

R. D. Pike Section **4-6** (ISC 2035, ext. 12555, rdpike@wm.edu)

J. C. Molloy Section **7-9, Course Instructor** (ISC 2031, ext. 12546, jcmolloy@wm.edu)

1. Lab discussion attendance policy: **MANDATORY**.

Each unexcused absence will result in a **25-point reduction** in your **lab report grade** for that experiment.

2. You **must** have a copy of Lab Manual 354 for Spring 2012.

3. Calculators are mandatory for calculations in every lab exercise.

4. Each student must provide personal eye protection. **Splash goggles are required** and may be purchased at the College Bookstore.

5. Reports must be written in ink on the report sheets torn from the lab manual. **Do not erase or white-out data**. If a digit is to be changed, draw a single line through the incorrect digit and write the correct digit **above**, not over, the crossed-out digit. "Erasable ink" is graded as **pencil**.

6. Reports must be completed in the laboratory and handed in prior to leaving the laboratory.

7. Only students who have broken glassware, etc. **must** check out of the laboratory and pay appropriate breakage charges during the last week of lab (April 16, 17) to receive a grade (**other than "I"**) for the course.

Laboratory Schedule for Spring 2012

Dates	Expt. #	Experiment
Jan 23, 24	1	Determination of Chloride and Vitamin C
Jan 30, 31	2	pH and Potentiometric Titrations
Feb 6, 7	3	Some Analyses of Water and solutions for Experiment #4
Feb 13, 14	4	Solubility Product Constant
Feb 20, 21	5	Determination of a Cation Mixture using Cation Exchange
Feb 27, 28	6	Electrochemistry
Mar 5, 6	Spring Break!	
Mar 12, 13	7	Inorganic Synthesis of Alum and CuCl
Mar 19, 20	8	Synthesis of a Coordination Compound (Week 1) and Midterm Exam
Mar 26, 27	8	Synthesis of a Coordination Compound (Week 2)
	9	Complexes of Copper, Part A
Apr 2, 3	9	Complexes of Copper, Part B
Apr 9, 10	10	Determination of the Mole Ratio in a Complex
Apr 16, 17	11	Analysis of a Coordination Compound [Breakage fees paid]
Apr 23, 24	Final Exam , taken in the discussion section in which you are registered	

The midterm exam will be based on the techniques, chemistry and calculations covered in Experiments 1 through 6. The final exam will be cumulative but heavily weighted toward Experiments 7 through 11. Each exam will count 15% of the final grade, with the remaining 70% from the graded laboratory exercises.

Sections			
	1, 2, 3	Monday 2–5 pm	Students are expected to attend all labs in the section for which they are registered— no section hopping . If it is necessary to switch sections for an experiment, you must obtain permission in advance .
	4, 5, 6	Tuesday 8–11 am	
	7, 8, 9	Tuesday 2–5 pm	