

Chemistry 1108/General Chemistry Laboratory Spring 2009

Instructor: Dr. Deanna L. Zubris
Office: 300E Mendel Hall
Phone: (610) 519-4874
E-mail: deanna.zubris@villanova.edu
Webpage: <http://www76.homepage.villanova.edu/deanna.zubris/>
Office hours: MW 12:30–1:30 pm, WR 3:30–4:30pm and by appointment

Teaching Assistant: Allison Sing *Teaching Assistant:* Courtney Shedden
Research Laboratory: 309 Mendel Hall *Research Laboratory:* 315/316 Mendel Hall

Teaching Assistant: Stephanie Reichardt *Teaching Assistant:* Nathalie Jaeger
Research Laboratory: 293 Mendel Hall *Research Laboratory:* 319 Mendel Hall

Objectives: to provide practical experience in the methodologies and techniques of organic, analytical, and biological chemistry.

Textbook: The Villanova University Chemistry 1108 Lab Manual (printed by Chemical Education Resources) is a spiral bound booklet with a black & white cover with some blue print and highlights. (see the Chemistry 1108 section in the University Shop)

Other required materials: Bound laboratory notebook, safety goggles, lab apron or coat, a combination lock.

Grading:

Notebook grades* (4% per report)	40%
Laboratory technique (2.8% per laboratory)	28%
UNKNOWNs** (6 UNKNOWNs @ 2% per UNKNOWN)	12%
Quizzes*** (5% per quiz)	20%
<hr/>	
Total****	100%

* Carbon copies for the labs performed in a given week will be collected the following lab meeting (starting 1/27-28/09).

Before removing the lab report from your lab notebook, you must have it initialed and dated by one of the teaching assistants. This will serve as a receipt for the lab report for grading purposes.

** During the semester, six (6) labs will involve 5 UNKNOWNs & 1 WORKSHEET (the WORKSHEET will be equivalent to 1 UNKNOWN). In these instances, along with the lab report an UNKNOWN sheet (or a WORKSHEET) must be turned in the following week.

If you fail to turn in an UNKNOWN sheet or sheets you must check with me regarding the reason. Missing UNKNOWN sheets will result in a zero for the UNKNOWN & lab technique for that particular lab.

*** Quizzes will be unannounced and will encompass material from previous labs as well as material from the lab to be performed on that day. We will have 4 or 5 quizzes throughout the semester; if 5 quizzes are given, the lowest quiz grade will be dropped.

**** All material that is to be graded with respect to your final grade for this course (e.g. **late** lab reports or **late** UNKNOWN sheets) must be turned in no later than 4/21-22/09 or it will not be considered with respect to your final grade.

NOTE: Please retain all graded material (lab reports, UNKNOWNs, & quizzes) until you receive your final course grade at the end of the semester. If there is any question about your final grade, this graded material can be used to determine if your grade was miscalculated.

Attendance: required for all scheduled laboratories; there are no makeup labs! Unexcused absences will result in a zero for technique/PRODUCT, notebook, or quiz during that laboratory period. If more than 1 lab is missed, excused or unexcused, a grade of "N"(incomplete) will be recorded and you will not be allowed to complete the course.

In the event of an excused absence, a THEORETICAL lab write up must be turned in the week after returning to lab (see one of my assistants for details of the write up.) Likewise, you must check in with me the week following the missed lab, otherwise this will be considered an UNEXCUSED absence.

Behavior: We are all adults and as such, we all have a sense of proper etiquette. However, since proper etiquette is a rather broad topic, **any in class, non-lab related discourse (i.e. talking!) is strictly prohibited.** Violators of this simple rule of etiquette will be asked to leave the laboratory. **In this event, the violator will not be allowed to return to lab until a letter acknowledging their improper behavior (co-signed by their advisor) has been delivered to me.**

Integrity: The Chemistry Department follows the Code of Academic Integrity of the College of Liberal Arts and Sciences of Villanova University as outlined in the Villanova Bluebook.

There will be **No Final Examination** for this course!

Also: Please check your e-mail routinely! If there are any announcements or changes in lab procedure, you will be advised through your Villanova e-mail.

Tentative Chemistry 1108 Laboratory Schedule/Spring 2009

Week	Date	Experiment	Manual Pages
1	1/13, 14	Introduction/ Check-In	
2	1/20, 21	Calcium Content of Dried Milk*	1-9
3	1/27, 28	Molecular Models**	11-20
4	2/3, 4	Synthesis of Aspirin	53-60
5	2/10, 11	Thin Layer Chromatography(TLC) of Analgesics*	61-65
6	2/17, 18	Qualitative Test for Alkenes*	21-33
7	2/24, 25	Simple Distillation*	35-51
8	<u>3/5-3/9</u>	Semester Break	
9	3/10, 11	Qualitative Test for Carbohydrates*	67-79
10	3/17, 18	Qualitative Test for Lipids (I)	81-96
11	3/24, 25	Qualitative Test for Lipids (II)	“ “
12	3/31, 4/1	Qualitative Test for Amino Acids & Proteins	97-104
13	4/7, 8	TLC Analysis of Amino Acids*	
14	4/14, 15	Experimental Review	105-107
15	4/21, 22	Check out	

*** UNKNOWN**

**** A molecular modeling kit is required for this laboratory. It will be used for laboratory on 1/27, 28/09, but you should also find it to be useful for the lecture (Chemistry 1134) associated with this course.**