

SYLLABUS

CHEMISTRY 107 LABORATORY – FALL 2009

QUESTIONS?

Contact Nancy Virgil, nvirgil@syr.edu 443-2851, Rm. 120 Life Science Center

GENERAL INFORMATION

Our first meetings are September 8 to 11 – this is during the second week of classes.

Check your class schedule for:

- **Your section number. Ignore section M001** -- the important section number is M002 - M031.
- The one day of the week your section meets: Tu, W, Th, or F.
- The beginning time: 10:45 AM, 11:00 AM, 2:00 PM, 2:15 PM or 7 PM

The labs meet in LSC 002, 004, and 008 on the Ground floor of the Life Science Center. Look for signs directing you to your section. If you are not pre-registered for CHE 107, or you have a scheduling conflict, visit the Undergraduate Chemistry Office in LSC 120 during the first week of class. The Undergraduate Chemistry Office is an excellent resource if you have any questions during the semester.

The Laboratory Manual is titled, "General Chemistry Laboratory Using Biochemical Tools". You must purchase it from the SU bookstore to get the license key for the course website. **Bring the manual to every meeting of the lab.** Your TA will be assigned at the first class meeting, and he/she will announce contact information.

Sign in to the course website before September 8. The *license key* for the website is in the lab manual packet.

Check the website several times per week for Announcements. TA's will also record your grades to the website - check them for accuracy when your graded papers are returned.

GRADING BREAKDOWN

- 20% Pre-Lab Quizzes
- 20% In-Lab Quizzes
- 50% Lab Reports
- 10% Lab Technique
- At the end of the semester the lowest quiz and report grade in each of the above categories is dropped from the average.
- There is no Final Exam in this 1-credit lab course.

PRE-LAB QUIZZES

The *Pre-Lab Quizzes are all On-line* and will be available on the course website for **up to ONE HOUR prior to the time a lab is scheduled.** You must login to the course website to take these quizzes. Failure to take the quiz on time will result in a zero grade for that quiz. There are NO MAKEUP PRE-LAB QUIZZES. *Study the experiment PRIOR to taking the quiz.* Take the pre-lab quiz several days before you do an experiment to avoid potential login problems.

IN-LAB QUIZZES

The In-Lab Quizzes will cover material given in the lab manual description for the day's experiment and in related material covered in the lecture course, CHE 106. ***Each quiz will take about 10 min. Most of the quizzes will be given at the beginning of the period.*** There are no makeup quizzes. If you need to be absent for an in-lab quiz, arrange with your TA to take it in another section during the week of the experiment – there are no makeups after the week of the experiment. If you miss one, you will receive a grade of zero for that quiz. *Study the experiment PRIOR to coming to the lab.*

LAB REPORTS

Chemistry is an experimental science. Every scientist keeps a conscientious record of the details of an experiment. Purchase a notebook to keep lab notes – any kind of notebook with 8"x10" sheets of paper, or a composition book is okay – and bring it to each lab. Your TA must sign your Lab Notebook and check in the equipment you used for that session. Do not leave lab without having your notebook signed.

Lab Report sheets can be downloaded from the website or obtained during the lab session. The graded reports make up 50% of your grade. Each of the lab reports will include a Data Section and formal questions to be answered. ***The lab reports and must be turned in at the beginning of the next lab period.*** Reports will be graded zero if they are more than a week late (see ABSENCES and MAKEUPS, below).

You will be assigned a workstation and a partner at the first meeting of the lab. All experiments are done with a partner. Each person should keep his/her own records. *At their discretion, TAs may assign a grade of zero to identical lab reports.*

ABSENCES

If you know that you will be absent from a lab, ***contact your assigned TA BEFORE the lab period***; that is the best way to assure that your grades are recorded properly. He/she can usually find you a temporary slot in another lab period. If you are seriously ill, go to the Health Center, not to lab. A student may ask Health Center staff for a note to verify an illness, but notes are usually issued only for very serious illnesses or injuries.

If you have an illness or injury that requires you to miss more than one lab session, bring a note from the Health Center or your private physician to your TA. In the case of extended absence, we recommend that you contact the Dean's office in your college (315-443-9396 for Arts & Sciences, 315-443-3604 for Engineering). The Dean's office can inform you of your options. *No further adjustment can be made without official documentation of an emergency situation from the Health Center, or a written excuse from a Dean regarding death in the family, etc.*

MAKEUPS

Makeup labs to recover from absences will be offered two to three times per week beginning in late October through the last day of classes. A maximum of two labs can be made up. Students cannot redo a lab to improve the score on a lab report. Check the course website after October 15 for a detailed schedule. All labs scheduled before the makeup dates will be available to be made up, except for Lab 3.

There are no makeups for Pre-lab quizzes – they must be completed on time for your section. Contact your TA immediately if you have to miss an In-lab quiz.

LAB TECHNIQUE

This grade will be determined by your TA and will be based on his/her observation of your laboratory technique and conscientiousness in the lab. The score is recorded at the end of the semester.

TEACHING ASSISTANTS

If you have questions or problems, contact your assigned TA. *See TA INFO* on the course website for the hours and TA e-mail addresses, phone numbers and the room where they hold office hours. Any of the TAs can help you during office hours, so don't wait until your own TA is available.

STUDENTS WITH SPECIAL NEEDS

Students who are in need of disability-related academic accommodations must register with the Office of Disability Services (ODS), 804 University Av., Rm 309, 315 443 4498. Students with authorized disability-related accommodations should provide a current Accommodation Authorization Letter from ODS to your TA and review those accommodations with the TA. Accommodations, such as exam administration, are not provided retroactively; therefore, planning for accommodations as early as possible is necessary. For further information, see the ODS website, <http://disabilityservices.syr.edu>.

SCHEDULE FALL 2009

Experiment	Week of	Title
--	9/1 to 9/4	<i>OFF – Check Your Schedule</i>
1	9/8 to 9/11	For Your Safety
2	9/15 to 9/18	Volume and Mass Measurements
--	9/22 to 9/25	<i>OFF</i>
3	9/29 to 10/2	Dimensional Analysis and Stoichiometry
4	10/6 to 10/9	Chemical Formulas and Reactions
5	10/13 to 10/16	Verifying the Empirical Formula of a Compound
--	10/20 to 10/23	<i>OFF</i>
6	10/27 to 10/30	Acid-Base Titrations
7	11/3 to 11/6	Enthalpy of Neutralization
8	11/10 to 11/13	Issues in Water Quality
9	11/17 to 11/20	Atomic and Molecular Structure - Part 1
--	11/24 to 11/27	<i>OFF</i>
10	12/1 to 12/4	Atomic and Molecular Structure - Part 2
--	12/8 to 12/11	<i>OFF</i>
--	12/15 to 12/18	<i>OFF – Check your online grades</i>