Welcome to Gen Chem Lab

This entire presentation will be posted on the Gen Chem Website!

• Lab Packet Information
• Gen Chem Basics
• Safety Training
• InterChemNet (ICN)
Lab Packet Information

Open this packet. Read and complete all of the enclosed instructions before your first lab meeting.

Chemistry: InterChemNet® Access Packet
This packet contains an access code and instructions for creating a required Chemistry Laboratory ICN® Account. Your ICN® Account will give you access to laboratory procedures, assignments, and safety information.

Fall 2013
CHY 123     CHY 124
CHY 102

Open this packet. Read and complete all of the enclosed instructions before your first lab meeting.

Required Course Materials

   (includes: a laboratory notebook, ICN Access Code, and safety information)

   The ICN packet is purchased in the University Bookstore

   The ICN packet will be discussed during the safety and orientation session during the first week of classes.

   You will need to set up your account in order to obtain (download) and submit (upload) a safety quiz.

2. InterChemNet Account

   To set up your account go to: http://icn2.umeche.maine.edu/newnav/NewNavigator/LoginForm.cfm

   The ICN access packet contains a code for setting up your account. After setting up your account, you will have access to lab procedures and your grades will be posted by your instructor. You must set up an account before performing the first lab experiment (during week two of the classes). This will allow you to obtain your pre-lab assignment for your first lab experiment.
General Chemistry Website:
http://www.maine.edu/general-chemistry/

General Chemistry CHY 121-124

Welcome to General Chemistry
Fall 2013

Lab starts the first week. Please attend a Safety and Orientation Session during your lab period in 316 Aubert Hall for afternoon labs (2 PM) and in 421 Aubert Hall for morning labs (10 AM). ICN Lab packets will be available next week.

Course Materials:


The bookstore sells a bundled, loose leaf version that includes access to OWL, the online homework program, Essential Algebra for Chemistry Students, and Survival Guide for General Chemistry with Math Review

OWL is also available separately in the bookstore as well as online. Please note that the CHY 121 textbook is also available in a number of different formats including hardcover, softcover/paperback, loose leaf, and eTextbook versions.

CHY 123 Lab: Labs meet starting the first week of classes. The first meeting includes a mandatory safety and course orientation session and lab check-in. The lab will start in room 316 Aubert for afternoon labs and room 421 Aubert for morning labs, and move to your lab for check-in.

In order to set up your lab account, you will need to purchase an access packet for the general chemistry lab courses. This is only available in the University Bookstore: Chemistry: InterChernet Access Packet (for CHY 102, CHY 123, and CHY 133 courses).

- It has links to InterChernet (ICN)
- The UMaine General Chemistry Laboratory Course Guide explains how to get started, how to use ICN, your grade, how lab reports are graded, and instructions for writing lab reports.
- Schedules of all the labs (including lab instructors)
- A section on Frequently Asked Questions (FAQ)
General Chemistry Basics

- Lab courses (CHY 123, 133, 124) are graded separately from classes (CHY 121, 131, 122). However, many, many concepts are covered in both lab and class and reinforce each other.

- Lab and class are co-requisites
  - If you drop either lab or the class, you will be required to drop the other.

- If you miss a lab, you may be able to make it up
  - See General Chemistry Website, FAQs. There is no guarantee of being able to make up a lab.
General Chemistry Basics

• Keeping a good lab notebook is required.
  – 5 pages of notes/experiment is normal. With 10 experiments, you should fill up a 50 page book.

• Labs have pre-lab work. This includes:
  – Carefully reading the lab procedures
  – Noting safety precautions (e.g. “do in hood”) directly in your lab notebook.
  – Completing all pre-lab safety instructions (e.g. MSDS sheets)

• You lab instructor may inspect your lab notebook before you start an experiment.
  – You will not be permitted to start a lab, if you fail to note in your lab notebook, steps that require special safety precautions
  – You will not be permitted to start an experiment, if in the opinion of the instructor, you are not prepared to conduct a lab experiment.
Safety is Everyone's Job

• General Chemistry Laboratory Safety Policies can be found at:
  http://www.umaine.edu/general-chemistry/policies/

• You are required to sign off on the safety policies before attending lab!
  This form is the last page of your ICN Handout. After reading the Policies, sign the form and bring it to the first lab meeting.

• The chemistry laboratory can be a dangerous environment and safety precautions must be observed at all times.
  – Even if an experiment seems completely harmless, you must remember to expect the unexpected. Therefore, it is mandatory that you follow these rules at all times.
Food

• 1. Eating, drinking, and smoking are forbidden in the lab.
  – Do not bring food or drink in any form into the lab.
  – No eating or drinking (including gum chewing) in lab or sitting on lab benches
Goggles

• 2. Goggles must be worn, covering your eyes completely, at all times.
  – As soon as you arrive in lab, you must put on your goggles.
  – If you need to remove them, you should leave the laboratory first.
  – We provide goggles that will be acceptable in the lab
  – Most of our labs have an adjacent room, which we call a breakout room. If you don't arrive when the TA allows students to enter the lab, enter the breakout room. There will be a box of temp goggles which you can use to retrieve your goggles at your bench.
  – Refusing to wear your goggles will result in a failing grade.
Contact Lenses

3. Contact lenses may not be worn in lab.
   - Gases can get trapped under contact lenses
   - If you use contact lenses and cannot use glasses in lab you may be forced to drop the course. Please see Laboratory Supervisor, Bob Kirk, Room 229 Aubert Hall, or the Laboratory Coordinator, Mitchell Bruce, 277 Aubert Hall, if you have any further questions.
Gloves

• 4. Disposable gloves are available, and should be worn whenever handling hazardous chemicals.
  – they must be removed before you leave the lab.
    • We do not want to spread chemicals about the building.
    • We do not want you to contaminate the instrument keyboards.
  – After lab, be sure to wash your hands thoroughly
  – Never touch your eyes or face until you are sure that your hands are clean
Clothing

4. Do not wear good clothes to lab.
   - Sandals and open-toed shoes are not permitted
   - Long hair must be pulled back
   - Aprons are provided
   - Shorts are not allowed
Health Issues

5. If you are suffering from any illness or are taking medication please inform your instructor.
   – This information could be important in case of an emergency.
   – If you develop any medical condition, which might limit your ability to perform experiments in the laboratory, please immediately inform the laboratory coordinator.
   – If you are pregnant or become pregnant during the semester, this may limit your ability to perform experiments in the laboratory; please immediately discuss this matter with the laboratory coordinator.
   – This information will be treated confidentially
Misc.

6. Your TA will teach you about safe techniques and the location of lab safety features in the laboratory, including:
   - Proper place to dispose chemicals
   - Proper technique for preparing aqueous acids (add acid to water)
   - Proper operation of hoods
   - Broken glass disposal
   - Evacuation procedures
   - Emergency contacts (especially important for labs that run until 5 pm or later)
   - Importance of cleaning the lab after each use
   - Importance of keeping personal belongings out of the laboratory
   - Safe procedures for handling concentrated acids
Safety is a Team Effort

• Questions?
InterChemNet:

Website: http://icn2.umeche.maine.edu/newnav/NewNavigator/LoginForm.cfm

InterChemNet News
Welcome to Fall 2013! Labs start during the first week of classes. You should attend the Safety and Orientation Session that will be offered during your first lab period in 316 Aubert Hall for afternoon labs (2 PM) and in 421 Aubert Hall for morning labs (10 AM). ICN Lab packets will be available during the first week of classes.

Lab Log In
Username
Password
Enter
Create new account
Forget your password?
Login as guest

Last updated: August-31-2013
Some Highlights of ICN

Important highlights for Fall 2013:

- The safety quiz is obtained online (downloaded) from your ICN progress page. After completing it, you upload it for grading by your lab instructor.

- Lab assignments (lab experiments) are obtained online.

- Lab reports are submitted for grading online (uploaded) either as Word or pdf files.

- Lab report grades will be posted into your account and will include instructor feedback. The methods for grading the course are described in this guide: The UMaine General Chemistry Laboratory Course Guide, Fall 2013, V3.0.

- Lab reports that are eligible for re-grading (available for the first few labs) are also submitted online.

Specific, detailed instructions are available in the UMaine General Chemistry Laboratory Course Guide. The following is an overview:
Upon logging in, you land on your **progress page**.

Labs are listed by week.

From your **progress page**:

- Accept assignments (download),
- Submit assignments (upload),
- Obtain lab grades and instructor feedback,
B. Assignment Basics

1. Your assignment may be different for others. It is important to always obtain your own assignment.

2. You accept an assignment by clicking on the “Accept” hyperlink.

3. You will then gain access to the assignment, status will change from “Accept” to “Submit”.

4. The “Submit” status indicates that you have access to your assignment.

5. The “Submit” status also will be used to electronically hand in the results of an assignment.
C. Laboratory Data

1. Data and observations should reflect your work and recorded in your lab notebook.

2. If you work with another student, record the name of your lab partner in your lab notebook.

3. Establish participation in collecting data by making observations in your lab notebook. Reference your lab partner’s notebook, including the page # where the information can be found.

4. Data taken from other students can be used only if it is clearly marked as such, especially if it is used in lab reports. However, the reason for using another person’s data should also be clearly explained. For example, if you collected data from another student to compare to your own data, you can do this if you identify the student(s) and clearly mark it as someone else’s data.
D. Electronic Submission of Assignments

1. The “Submit” status indicates that you will be able to submit the assignment when it is ready.

3. Your assignment will usually be due before the next lab session.

5. You will be asked to submit assignments the safety quiz and through your ICN account. The safety quiz is due before your next lab period, next week.
E. Electronic Submission of the Safety Quiz Assignment

1. The safety quiz is downloaded. It is a fillable pdf file.


3. Off line, you complete the quiz (make sure you save a file containing your answers).

4. To submit the safety quiz, you click on “Submit”. This will take you to a new page, called “Submit Lab Assignment” (or Submit Lab Report”).

5. From this page, you will be able to choose a file on your computer and upload it.

6. Your file will be sent to your lab instructor.

7. Your assignment will get a date and time stamp.
F. Lab Procedures and Pre-lab assignment.

1. Lab procedures for each experiment are downloaded. You can print the lab procedures and bring a paper copy to lab.

2. A pre-lab assignment, consisting of summarizing the lab, making a safety table of chemicals involved, and answering questions, must be completed before you come to lab.

G. Electronic Submission of the Lab Report Assignments

1. Lab reports are submitted in a similar way as the safety quiz either as a Word or pdf file.

2. You will need to submit some work that is scanned and incorporated into your lab report. For example, there are worksheets that need to be submitted with your lab report. Scanners will be available in lab.
I. The Accept, Submit, Grading, and View Feedback Cycle

1. After submission, the assignment changes from Submit to Grading.
2. Lab instructors grade your work. **It is very important to save every assignments throughout the semester.**
3. After submission, the next assignment will become available (i.e. show “Accept”.)
4. The Accept, Submit, and Grading cycle will be used for all assignments. As you complete assignments, new assignments will appear.
5. When your assignment is graded, your will be able to view feedback, by clicking on the “View Feedback” link as shown here.
6. The feedback page will contain your grade as well as comments.
Please proceed to your lab – so that you can be checked into lab

The ICN Lab Packets are available in the bookstore