This Pre-Lab Video

Where's the action? Will you be safe?
Who's who? What if you're absent?
What do you need to buy? Can you get by with a little help from your friends?
What are the house rules? How do we communicate course information?
How do you get help? What will you do for next week's lab meeting?
What contributes to grades?

Floor Plan – 2nd Floor, (Chemistry)

![Floor Plan Image]

24 students / lab

The Schedule

First Week: All sections meet

First lab meeting deals with safety, distribution of lab coats, general orientation to facilities and schedule of activities. YOU MUST ATTEND.

Beginning the second week of the semester, sections will meet in lab alternate weeks (see next slide).

In weeks when lab section does not meet, you are assigned virtual laboratory exercises which you turn in for grading at the next laboratory meeting.

Course Organization: The Schedule

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<th>Section</th>
<th>Group</th>
<th>Day</th>
<th>Time</th>
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<td>203 (E)</td>
<td>204 (D)</td>
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<td>204 (B)</td>
<td>206 (C)</td>
<td>203 (F)</td>
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Course Requirements
First lab meeting will deal with safety and course organization. You must attend!!! See Blackboard.
Must acquire before second lab meeting:
CHEMISTRY 133 - Laboratory Manual
(Publ: Hayden-McNeil)
CHE 133 Supplies:
Prescribed: Safety Goggles
Prescribed: Lab Notebook
Towel
[Calculator]
Chem Dept provides lab coats at no cost to students.

Lab Notebook
Not Spiral Bound, Pre-numbered pages
Lab notebooks must be used ONLY to record data collection & analysis
• Not for lab lecture notes
• Not for other subjects
Records must be kept in INK!
Line out errors! No White Out
No Erasures
Notebook is for real-time observations, not diary to be reconstructed from memory.
Should be able to reconstruct data sheets from notebook entries!!!!!!

What will we do?
NOT designed to demonstrate, confirm or verify principles
Activities that DO require your developing:
Knowledge of Modern Terminology:
Forsooth! Ye shall not dispense water into oil of vitriol
Mastery of Modern Equipment
Ideas, Concepts
Powers of Observation
Powers of Deduction
Experimental Skills
Arithmetic Skills

You actually submit data sheets (tear-outs from manual) at end of each lab.
5 points out of each exercise grade is awarded for proper use of notebook.

Datasheets must have no corrections.

Who’s Who
Dr. Mohammad Akhtar
Dr. Bradford Tooker

Who’s Who - Support
Ms. Lobna Kahek
Preparation & Stockroom

100 L

100 mL

X 1000 = 100 L = 50 2 L Bottles

EXERCISES NOT designed to demonstrate, confirm or verify principles
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What Contributes to Your Grade?

- Preliminary Exercises
- Test Exercises
- Virtual Labs
- On-line Pre-labs
- Quiz
- Comprehensive Quiz

See Syllabus on Blackboard for Details

Types of Exercises

- Preliminary exercises (50):
  - quality of reported observations & analysis
  - neatness of datasheets
  - adherence to safety practices
  - proper use of lab notebooks

- Test exercises (100):
  - the above
  - evidence of proficiency in technique, usually measured by ACCURACY & PRECISION in determining an unknown

- Virtual exercises
  - on-line exercises graded same as preliminary exercises

Absence on any graded item results in 0

Grading & Absences

Absences and make-up:

- Unanticipated Absences:
  - Make up of exercise or quiz is not always possible. After-the-fact written documentation is required

- Anticipated absences:
  - Must give PRIOR NOTICE
  - Reschedule depends on space availability

Excused absences are only those justified by a note from a doctor, lawyer, judge, parole officer, etc.

Absence from 4 or more exercises will result in an F

Help Sessions

TAs conduct help sessions,

- Individualized meetings to help resolve questions or uncertainties about:
  - Laboratory background & procedures
  - Laboratory calculations
  - Pre-laboratory questions

Help Sessions are most useful

BEFORE you come to the laboratory

BUT

AFTER you have studied the relevant materials

Help Session Schedule will be distributed

Communications

Course Information is posted on Blackboard

Includes:

- schedule/syllabus
- policies
- grading information
- links to virtual labs
- links to lecture videos

The e-mail address we use to reach you is the one in Blackboard. Make sure you check that mailbox.

Pre-lab exercises are conducted on Oscc

- https://organic.cc.sunysb.edu/
- multiple attempts – graded automatically

The CHE 133 Website has

- http://www.ic.sunysb.edu/Class/che133/
- learning objectives
- flow charts for exercises
- supplemental information about exercises
- descriptions of basic procedures & calculations
You will often work in pre-assigned groups. Each partner must assume individual responsibility for what is done.

- A common grade is assigned for any common result but not necessarily for overall exercise.
- Each submits an INDIVIDUAL REPORT with independent presentations and analyses of the observations.
- Grades of team members may differ because of data format, clarity or completeness of report.

If in doubt about some aspect of the exercise, repeat measurements or observations yourself!

**Independence**

**Ethical Standards**

Honesty is the best policy

- Plagiarism (presenting others' work as yours)
- Unauthorized collaboration on exercises or quizzes
- Fabrication of data (dry-lab-ing)
- Removing quizzes from quiz room
- Taking a quiz in a section other than yours

are taken seriously and can result in DISMISSAL.

If you are unsure about whether a particular practice is permissible,

Ask instructor BEFORE doing it.

**Chemical Hazards**

The substances we use in the course are primarily

"household" "chemicals"

**Safety**

Stony Brook takes safety very seriously and has an excellent record.

\[ \text{SAFETY} = \text{COMMON SENSE} \]

2.8 Million people/yr involved in household accidents

People don't always exercise common sense

GLASS: Don't cut yourself. Use broom & dustpan available in each lab

HOT OBJECTS: Don't pick them up with bare hands

**Safety DEVICES:** TA's will instruct you on the location and use of safety equipment, including:

- safety showers,
- fire extinguishers,
- lab exits,
- safety showers,
- wash stains,
- CLOTHING: No open footwear;
- No exposed skin other than arms and head.

**REAGENTS:** While most are household materials, handle them in accordance with instructions. Take special note of hazard warnings.

**EYES:**

YOU MUST WEAR SAFETY GOGGLES IN THE LABORATORY AT ALL TIMES!

It is your neighbor's technique we are concerned with, not yours.

As part of next week's exercise, you are asked to read and sign a SAFETY AGREEMENT. Each exercise will also include a safety assignment.
5.4 - Eye Protection

For all general, all organic/inorganic chemistry instructional labs, all persons in the laboratory must wear chemical splash goggles, not safety glasses or spectacles, at all times, even when not performing a chemical operation. It is the responsibility of each instructor to enforce this policy; alternate forms of protection are not permitted.

Chem Dept CHP

5 point penalty for not wearing goggles
(20 points if observed by Safety Committee member)

First Lab Meeting.
All sections meet during the first week!
Check Blackboard for the meeting time for your section.

Before your Second Lab Meeting.
Read: (in lab manual)
SUSB-001 Course Policies
Read and sign the safety agreement
SUSB-003 Intro to Lab Measurement
SUPL-001 Analysis of Experimental Reliability

Complete and submit (on-line):
Oscer Pre-lab assignment on Measurement
https://organic.cc.stonybrook.edu/

We hope you enjoy your experience in the Introductory Chemistry Laboratory