

### ***Who's Who***

Prof. Robert Schneider, Lecture 2 & Secs 2 & 5

Dr. Hasan Yumak, Lecture 1 & Sec 7

Prof. Elizabeth Boon, Sec 6

Prof. Peter Tonge, Secs 3 & 4

Dr. Mohammad Akhtar, Coordinator of Laboratories & Sec 1

### ***Course Requirements***

Must acquire before next lecture:

**CHE 134 – Laboratory Manual**  
(Publ: Hayden-McNeil) **Seventh Edition**

**eInstruction RF Pad**

& before first lab exercise

**CHE 134 Supplies:**

**Prescribed Safety Goggles**

Lab Notebook

Combination lock

Towel

**No-one will be  
allowed in lab  
without safety  
goggles**

### **Lab Notebook**

Composition book, Bound, Pre-numbered pages

Lab notebooks must be used **ONLY** to record

what you do & the results

- Not for lab lecture notes
- Not for other subjects

**Records must be kept in INK!**

Notebook is for real-time observations, not a diary to be reconstructed from memory.

Line out ~~errors~~! **NO WHITE OUT** No Erasures

Should be able to reconstruct **data sheets** that you submit for grading from notebook entries!!!!!!

**The Notebook is the first place  
into which data and observations  
are recorded - not the data  
sheets!**

**Data sheets must  
be neat!**

### **Why CHE 133 is pre-requisite Techniques & Concepts**

**Titration:** Buret, Pipet, End Point, Indicators

**Spectronic 20:** Beer's Law, Quantitative Dilution

**Synthesis:** Percent Yield, Filtration

**Weighing by Difference:** Analytical Balance

**Use of pH Meter:** Glass Electrode

**IR Analysis of Group Vibrations:**

**Melting Points:**

**Measures of Accuracy and Precision:**

Averages, Average Deviation, Percent Dev.

Some *concepts* are best understood in hands-on environment. We will explain these as required.

**You may sometimes learn something first in lab!**

**12 Lab meetings:**

1 Check-in

2 - 11 "Household CHEMICAL" Exercises

*Thermochemistry Kinetics*

*Electrochemistry Polymer Properties*

*Organic Synthesis pH Titration*

*Volumetric analysis Colorimetric analysis*

12 Check-out

**Lab schedules will be distributed IN LAB**

**Keep schedule for reference!!!!**

### Course Policies - Details in SUSB-001

	Quizzes		
	Comprehensive Quiz		
	Lecture Questions		
	Preliminary Exercises		
	Test Exercises		

Absence on any of the above results in 0

### GRADING - Exercises

- **Preliminary exercises:**
  - Grades based on quality of reported observations and analysis
- **Test exercises:**
  - Grades based on proficiency in technique, usually measured by **ACCURACY & PRECISION** in determining an unknown material

See Web site for details - [Grading Basis](http://www.ic.sunysb.edu/Class/che134/grad134.html)  
<http://www.ic.sunysb.edu/Class/che134/grad134.html>

### GRADING, cont'd:

#### Absences and make-up:

All lab sections are filled. Room only if absences



#### Unanticipated Absence

Make up of exercise not possible

written

Excused Absence ⇔ Properly Documented

Students are responsible for information presented in lab whether present or not (e.g., on quizzes)

Multiple absences are best remedied by dropping course

Absence from 4 or more exercises will result in an F

### Grading ERRORS

Grading standards for *final exercises* are *posted in Laboratories*

Errors should be submitted for re-grading

i.e., inconsistencies with grading standards

After discussing and verifying errors with your TA!

- regrade requests must be submitted within one week after the item has been returned to you.
- no requests accepted after a lapse greater than two weeks.

Regrade request forms are available on bulletin board in lab & on web

### Quizzes

**Quiz 1:** 50 points

SUSB-053, SUSB-017, SUSB-023, SUSB-028

**Quiz 2:** 50 points

SUSB-028, SUSB-015, SUSB-012, SUSB-014

**Quiz 3:** 100 points

SUSB-019, SUSB-018, SUSB-056

plus *comprehensive*

### Lecture Credit - 50 points

10 Lectures - Today does not count

Grade determined by Answers to Lecture Questions - up to 5 points/lecture



Correct Answers - 1 point  
 Incorrect Answers - 0.5 points  
 No Answer - 0 points

You are excused from 4 lectures but clicker function is entirely your responsibility

### Grading - Summary

2	Quizzes	@ 50	100
1	Comprehensive Quiz	@ 100	100
10	Lecture Questions	@ 5	50
6	Preliminary Exercises	@ 55	330
4	Test Exercises	@ 105	420
23	Total		1,000

### HELP SESSIONS

Teaching Assistants conduct help sessions,  
Monday - Thursday

Individualized meetings to help resolve questions or  
uncertainties about:

- Laboratory background & procedures
- Laboratory calculations
- Pre-laboratory questions

303 Old Chem

Help Sessions are most useful

**BEFORE** you come to the laboratory / lecture  
**BUT**

**AFTER** you have studied the relevant materials

Help Session Schedule will be distributed in lab and is  
posted on the web

### Laboratory Times - All Sections

Laboratory sessions begin at the scheduled  
time.

Pre-labs are not accepted after first 10  
minutes.



### Student Response System

Class Key Sec 1

LECTURE SECTION 1  
( MONDAY )

**F48769L664**

This Key is on the WEB

### Student Response System

Class Key Sec 2

LECTURE SECTION 2  
( FRIDAY )

**N48770H554**

This Key is on the WEB

I have registered my  
student response pad for  
CHE 134.

**A = TRUE**

**B = FALSE**

If FALSE, please do so before  
the next scheduled lecture.

G1  
Registered?

## World Wide Web



Course Materials accessible through



Chemistry Department WWW Server

<http://www.stonybrook.edu/chemistry>  
Choose "Courses"  
then CHE 134

includes *small print* version of  
lecture notes for easy printing

We will also use Blackboard for  
general course-related  
announcements and  
grade information

<http://www.ic.sunysb.edu/Class/che134/lectures/syllabus133.html>

**CHE 134**  
*Introductory Chem Lab II*

Site Index      Search Chem 134

CHE Instructions    Response Pad Help    Syllabus & Schedule    Family and TA E-mail Addresses    Section, Section Lab & Lectures

Course Reservations    Laboratory Safety    Course Photos

Graduate Basis for CHE 134    Course Related Links    Academic History

Help Session Schedule    Lab Notebook

QUESTIONS

Chemistry Department    Solar    Blackboard    Campus Home Page    Integrated Chem Society    Academic Calendar

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## INDEPENDENCE

You will sometimes work in **pre-assigned groups**  
Each partner must assume responsibility for what is  
done.

- A **common grade** will be assigned for any **common RESULT** but not necessarily for overall exercise.
- Each submits an **INDIVIDUAL REPORT** with independent presentations and analyses of the observations.
- **Overall** grades of team members may differ because of clarity or completeness of report

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

## ETHICAL STANDARDS

Honesty is the only acceptable policy

- Plagiarism
- Unauthorized collaboration on exercise or quiz
- Fabrication of data
- Removing quizzes from lab
- Taking quiz in another section without permission

are taken very seriously and can result in **DISMISSAL**

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

**ASK INSTRUCTOR BEFORE DOING IT**

## Safety

**GLASS:** Don't cut yourself. Use broom & dustpan available in stockroom

**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:

eyewash fountains, safety showers, fire extinguishers, etc,

**REAGENTS:** 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!**

(State Education Law)

As part of next week's exercise, you will be asked to  
read and sign a **SAFETY AGREEMENT**