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Who's Who
Prof. Carlos Simmerling
Dr. Mohammad Akhtar
Dr. Bradford Tooker
Teaching Assistants
Lubna Kahek - Stockroom

Course Requirements

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

CHE 134 Supplies:
Prescribed Safety Goggles
Lab Notebook
CHE 133 Notebook is OK
Lab Coat
CHE 133 Lab Coat
Will be provided to new students

Course Policies

Details are in SUSB-001

Which is in the lab manual

Also, see the course web page

GRADING

- Preliminary exercises (4):
  Grades based on quality of reported observations and analysis
- Test exercises (2):
  Grades based on proficiency in technique, usually measured by ACCURACY & PRECISION in determining an unknown material
- On-line Pre-labs - OSCER (6 - 1 = 5):
  Questions about the current exercise
- Virtual Labs (3):
  Simulated take-home exercises
- Quizzes (2):
  1 Mid-semester, 1 Final (Comprehensive)
Grading - Summary

<table>
<thead>
<tr>
<th></th>
<th>Quiz</th>
<th>@ 50</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Comprehensive Quiz</td>
<td>@ 100</td>
<td>100</td>
</tr>
<tr>
<td>6 - 1</td>
<td>On-line Pre-labs</td>
<td>@ 10</td>
<td>50</td>
</tr>
<tr>
<td>4</td>
<td>Preliminary Exercises</td>
<td>@ 50</td>
<td>200</td>
</tr>
<tr>
<td>2</td>
<td>Test Exercises</td>
<td>@ 100</td>
<td>200</td>
</tr>
<tr>
<td>3</td>
<td>On-line Virtual Labs</td>
<td>@ 50</td>
<td>150</td>
</tr>
<tr>
<td>16</td>
<td>Total</td>
<td>750</td>
<td></td>
</tr>
</tbody>
</table>

Do We Grade "on a curve"?

<table>
<thead>
<tr>
<th>Grade</th>
<th>Cutoffs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A- / B+</td>
<td>&gt; 90% of 750 = 675</td>
</tr>
<tr>
<td>B- / C+</td>
<td>&gt; 80% of 750 = 600</td>
</tr>
<tr>
<td>C / D</td>
<td>&gt; 70% of 750 = 525</td>
</tr>
<tr>
<td>D / F</td>
<td>&gt; 60% of 750 = 450</td>
</tr>
</tbody>
</table>

What Do We Expect You to Know from CHE 133

- Titration: Buret, Pipet, End Point, Indicators
- Spectronic 20: Use, Beer’s Law, Quantitative Dilution
- Weighing by Difference: Analytical Balance
- Conducting Chemical Synthesis: Vacuum Filtration, Yields
- pH Meter: Use, Glass Electrode for pH
- Melting Points: Meltemp Use
- FTIR: Use & IR Analysis of Group Vibrations
- Accuracy and Precision: Average, Avg Dev, Pct Dev
- Curve Fitting by Least Squares - Linear: Goodness of Fit ($R^2$)
- General Safety Information: Fire Safety Signs, SDS, PSE, etc.

ABSENCES / MAKE-UP

Unanticipated Absences:
Labs are all filled. Make-up of an exercise or quiz after the fact is not generally possible.

Anticipated absences:
By Permission. Students must give PRIOR NOTICE and provide written documentation* to lab coordinator.
- Legitimate requests include:
  - Officially Scheduled Sports Events
  - Scheduled Medical Procedures
  - Scheduled Legal Procedures

Excused Absences mean only properly documented ones, e.g., doctor’s note
* Students should keep documentation until end of semester

SECTIONS/SCHEDULE

There are 8 basic sections (0, 1, 2, 3, 4, 5, 6, 7)
Each has up to six subsections, e.g., L31, L32, …, L36
(which we designate as 3A, 3B, …, 3F)

First week: (Week of Jan 23)
- All sections meet in lab on scheduled day but at a special time
  (first week times on next slide).

After first week: sections meet in lab at scheduled day and time but on alternate weeks
To simplify communication, we designate the sections that meet in the same week as A or B

A: Sections 0, 2, 4, 6 starting week of Feb 2
B: Sections 1, 3, 5, 7 starting week of Feb 9

FIRST WEEK SCHEDULE

<table>
<thead>
<tr>
<th>A Sections</th>
<th>First Week Meeting Time</th>
<th>B Sections</th>
<th>First Week Meeting Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sec 0</td>
<td>10:00 AM Wed</td>
<td>Sec 1</td>
<td>11:30 AM Wed</td>
</tr>
<tr>
<td>Sec 2</td>
<td>2:00 PM Wed</td>
<td>Sec 3</td>
<td>3:30 PM Wed</td>
</tr>
<tr>
<td>Sec 4</td>
<td>10:00 AM Thu</td>
<td>Sec 5</td>
<td>11:30 AM Thu</td>
</tr>
<tr>
<td>Sec 6</td>
<td>2:00 PM Thu</td>
<td>Sec 7</td>
<td>3:30 PM Wed</td>
</tr>
</tbody>
</table>

Scheduled Day, Regular Time
Scheduled Day, Special Time
### REGULAR SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Section 1</th>
<th>Section 2</th>
<th>Section 3</th>
<th>Section 4</th>
<th>Section 5</th>
<th>Section 6</th>
<th>Section 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 25-26</td>
<td>ALL SECTIONS meet (see Special Instructions)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feb 1-2</td>
<td>SUSB-028</td>
<td>SUSB-028</td>
<td>SUSB-028</td>
<td>SUSB-028</td>
<td></td>
<td></td>
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<tr>
<td>Feb 8-9</td>
<td>SUSB-028</td>
<td>SUSB-028</td>
<td>SUSB-028</td>
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<td></td>
<td></td>
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<tr>
<td>Feb 15-16</td>
<td>SUSB-023</td>
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<tr>
<td>Feb 22-23</td>
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<tr>
<td>Mar 1-2</td>
<td>SUSB-014</td>
<td>SUSB-014</td>
<td>SUSB-014</td>
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<td>Mar 8-9</td>
<td>SUSB-014</td>
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<tr>
<td>Mar 13-19</td>
<td>SPRING BREAK</td>
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<td>Mar 22-23</td>
<td>SUSB-015</td>
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<td>Mar 29-30</td>
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<tr>
<td>Apr 5-6</td>
<td>SUSB-017</td>
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<tr>
<td>Apr 12-13</td>
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<td>Apr 19-20</td>
<td>SUSB-056</td>
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<td>Apr 26-27</td>
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<tr>
<td>May 3-4</td>
<td>QUIZ - ALL SECTIONS meet (see Special Instructions)</td>
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### HELP SESSIONS

Teaching Assistants conduct help sessions, in Room 215

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

Help Sessions are most useful AFTER you have studied the relevant materials.

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

### HELP RESOURCES

- Lecture Videos
- Lecture Notes
- Flow Charts
- Web Supplements
- Help Sessions
- Faculty Office Hours

### WEB

Course materials and announcements and links to pre-lab videos are posted on Blackboard.

Pre-lab exercises and other information are on OSCER

http://organic.cc.stonybrook.edu/che134/

Other Supplementary and supporting information is on the course website at:

http://www.ic.sunysb.edu/Class/che134/

Communications with students regarding the course are sent using Blackboard e-mail.

### ETHICAL STANDARDS

**Honesty - not Truthiness**

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

These are very serious and can result in DISMISSAL.

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

ASK INSTRUCTOR BEFORE DOING IT

http://www.stonybrook.edu/commcms/academic_integrity/

### 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 partner submits an INDIVIDUAL REPORT with independent analyses of observations.
- Failure to do as constitutes plagiarism

When working in a group, if you are in doubt about some aspect of an exercise, repeat measurements or observations yourself!
SAFETY

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 remind you of the location and use of safety equipment, including: eyewash fountains, safety showers, fire extinguishers, lab exits, etc.

REAGENTS: Handle them in accordance with instructions. Take special note of hazard warnings.

CLOTHING: Wear proper clothing. No open footwear.

SAFETY GOGGLES

EYES

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

It is your neighbor's technique that concerns us, not yours.

You will, again, be asked to read and sign and submit a SAFETY AGREEMENT

Please read what you have signed!

We hope you have a pleasant and productive spring semester.