Welcome to CHEM 102! As the science that describes matter, chemistry is vital to our understanding of many fields from biology to the environment to materials science. Rapid new developments in all of these areas virtually guarantee that chemistry will become even more important in the years to come. A knowledge of chemistry is thus an important ingredient in a liberal arts education, and an essential foundation for a technical education.

Chemistry 101 and 102 are the first-year chemistry sequence in the core curriculum. Because chemistry is so important to many fields, this is a very large course here at Texas A&M. Although this large enrollment does place certain limitations on us, we in the First Year Chemistry Program are committed to providing you an interesting and stimulating course. To this end, the lecture and laboratory are together in one 4-hour course. We have carefully chosen a textbook for its clarity, examples, and problems. We try to make ourselves approachable both in and outside the classroom. There will be teaching assistants available most hours of the day in Room 116 HELD to answer both lab and lecture questions.

This handout outlines my policies for my sections of lecture and the laboratory/recitation. Please read this material carefully to familiarize yourself with the various rules and procedures, especially those which govern examinations and grades. At the end, you will find two calendars which contain (1) exam dates and reading assignments for lecture and (2) the laboratory/recitation section. In order to get the most out of lectures in this course, it is emphasized to get the assigned material before it is discussed in class. In order to get the most out of laboratory/recitation, come to each lab prepared for the scheduled activities.

I will strive to make this course a meaningful and enjoyable experience for you. Please feel free to call upon me whenever I can be of help. I am giving weekly review sessions and I will be available in Room 116 HELD during office hours to answer both laboratory and lecture questions.

In addition, the First Year Chemistry Program is on the World Wide Web. It can be accessed through http://www.chem.tamu.edu/class/fyp/ (more in Section XIV). My notes and other information can be found here. Please do not hesitate to let me know when you need help. I do wish to work with you in order for you to have a stimulating and productive course.

Finally, it is important to check your NEO account regularly. I will be sending messages to you. At this time, professor messages are NOT being forwarded to your other e-mail accounts, so please physically check the NEO account.

Sincerely,

Dr. Wendy L. Keeney-Kennicutt
Associate Director and webmaster, First Year Chemistry Program

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V. ChemSkill Builder (CSB): This is a system of computer-based or internet lessons (http://www.mhhe.com/csbl) designed to be used as electronic homework. The assignments are given in both calendars. For CSB LAN-Plus: Minimum system requirements: Windows 95 - XP. You will be sending your results file by email to a specific address (more later). For CSB2000 computer-based system: Minimum system requirements: Windows 3.1: 4MB RAM, 256 color VGA monitor, 640x480 resolution. Windows 95 or 98: 16MB RAM, 256 color VGA monitor, 800x600 resolution is recommended. If using 640x480, set Taskbar Properties Options to Auto-hide. Under Display Options, set Fontsize to Small fonts. If you have any problems, please contact me - I have a good record for saving data - however - Make a copy of your gradekeeping disk before you start and back up regularly. You can uploading your data periodically in my office or email me the Studat24.dat file on your disk. No matter what system you are using your work is due by Friday at 5pm as per class schedule. There are a total of 8 chapters due periodically. You will get 5 pts per chapter if the average of its sections is \( \geq 90\% \), 4 pts if \( \geq 80\% \), 3 pts if \( \geq 70\% \), 2 pts if \( \geq 50\% \), 1 pts if \( \geq 30\% \) for a total of 40 points. You will also get 1 additional point per chapter if you upload your data by 5pm on Friday as per the schedule. For sure, all chapters are due to be uploaded on Friday, the last week of class for 2 additional points. These 50 pts constitutes 9% of your course grade.

VI. Lecture Attendance: I will not be taking attendance as such throughout the semester. However, to encourage you to attend class, there will be occasional in-class problems that will account for 5% of your course grade. See Section VII.

VII. In-Class Team Problems: During the semester, I will give 13 unannounced quizzes to be done in class by self-appointed teams, consisting of ~3-6 of your fellow students, sitting around you. Each quiz is worth 3 points, and only your best 10 quizzes will count. Each team will work together to solve the problem. Each student in the team will write down the complete solution on their own paper, then one team member will bring their team members papers to the front and staple them together. I will be grading them leniently; it will be fairly easy to get 1.5 out of 3 points. The purpose of the exercise is to encourage you to (1) come to class and (2) think about the subject matter as we go through the course. Quiz 1 is the results (2 letters) of the web personality quiz found at the bottom of our web page - more on the webpage. Quiz 2 is the Information Card that will account for 5% of your course grade.

VII. Lecture Exams: There will be 3 exams (Exams 1, 2, and 3) given on the days indicated on the Calendar. Additionally, there will be a Final Exam and make-up exams. These exams will be a combination of multiple choice questions that will be machine graded and non-multiple choice questions that will be hand graded. Lab quizzes are described later.

(A) Lecture Exams: These are 70 minute exams given during the regular lecture times. Each carries a value of 100 points. Exam 1 will cover material into Chapter 26 of the textbook. Exams 2 and 3 will concentrate on the block of material covered after the previous exam. One or more review questions will also be included.

(B) Final Lecture Exam: The Final Exam will be a 2 hour, 170 point, multiple-choice question exam covering all the chapters taught during the semester. The schedule time for the Final Exam is Friday, December 12 from 12:30 to 2:30 p.m. You must bring your student I.D. to the Final Exam.

(C) Make-up Lecture Exams: There will be a make-up for each of the exams given during the semester if you miss any of them. The makeup exam is scheduled 10 days after each exam at 4:00 pm on Friday (see syllabus for room). I require a written statement about the excuse for the absence - it can be e-mailed to me or given to me during class time. If the exam time conflicts with your other classes, please contact me immediately. The make-up exams will be at least as difficult as the regular exams.

VIII. Grade Calculations: In calculating the lecture grades, each of the three exams counts as 100 points for a total of 300 points, the CSB points are 50 points, the in-class work counts for a total of 30 points, while the Final Exam counts as 170 points. All scores used for grade calculations are carried to 3 decimal places, but posted as rounded integers.

\[
\text{Lecture Average} = \frac{\text{Total of 3 Exams} + \text{CSB} + \text{In-Class Work} + \text{Final Exam}}{5.5} + \text{BOPs}
\]

\[
\text{Laboratory/Recitation Average} = \frac{[\text{Sum of all reports, all Pre-Labs and all Post-Labs}] + \text{(Sum of all Lab/Recitation Quizzes)} + \text{(Sum of CPR points)} + \text{(Lab/Recitation finals)]}}{4}
\]

divided by a factor that will result in your section's Lab/Recitation Average being between 80 and 86. For more information, see the end of this handout.

\[
\text{Course Average} = \frac{(3 \times \text{Lecture Average}) + \text{(Laboratory/Recitation Average)}}{4}
\]

The ranges of the letter grade will be determined at the end of the semester. In the past for a typical semester, the Chem 102 grades were determined using: A, \( \geq 87; \) B, 75-86; C, 62-74; D, 48-61. This semester's ranges could be different.

Students missing a small portion of the course, but having at least a 50 average, will receive a grade of "I" (Incomplete) if they request this grade and meet the University criteria for this temporary grade.

VIII. Lecture Exam Administration:

(A) Check the exam seating assignment on the bulletin board outside Room 100 Held one day in advance. Each exam has a different seating assignment.

(B) We will not be collecting scanntrs this semester to use up our backlog. Also if you are left-handed and want to be assigned a left-handed seat, go to the Chemistry Help Desk in Room 116 HELD from 9:30-11:30am and 1:30-3:30 pm daily.

(C) Arrive at the exam on time and wait outside until invited in. Cheating or bringing in material with intent to cheat will result in a zero for the exam or a more severe penalty.

(D) Bring to the exam at least two sharpened #2 pencils, an eraser, and your TAMU I.D. card. Pencil sharpeners and calculators (with certain restrictions) may also be brought. There must be NO "sharing" of calculators during an exam. Any other items must be "enclosed" out of sight in a briefcase, pack, purse, or sack, and either stored under your desk or placed against the wall before taking the assigned seat.
(E) Students cannot use calculators that are programmable or have alphanumeric capabilities for the exams. Some of the acceptable and unacceptable calculators are listed on the bulletin board outside Room 100 Heldenfels. Any student attempting to use an unacceptable calculator will receive a zero for the exam plus other penalties.

(F) Follow the directions on the large envelope given to you in the exam room. Do not write on the envelope or on the back of the scanner sheet. Failure to follow these directions may result in a withheld or zero grade. In addition, note that the answers have to be recorded on the standard gray scanning sheet to be graded.

(G) During the exam, keep all work covered as much as possible. Talking or looking around the room will result in a withheld grade for the exam.

(H) Work carefully, but you must finish in the allotted time; exams handed in late will not be graded. Please remain seated quietly until asked to leave.

You will also be able to access your grades on the World Wide Web. More details in Section XIV. If your score is different from what you believe it should be, or if your score is not posted, please see me.

Special announcements and schedule changes will be announced at the beginning of the lectures.

XIII. Texas A&M Support Services for Students with Disabilities (845-1637):

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, either temporary (e.g. broken arm) or permanent (including a learning disability), please contact the Department of Student Life, Services for Students with Disabilities in Rm 126 of the Koldus Bldg (Hours: 8am to 5:30 pm). If you have any questions, see me.

XIV. World Wide Web (http://www.chem.tamu.edu/class/fyp/)

Included are (1) details on individual lecture and lab sections, and (2) a test-bank of selected multiple choice questions for each chapter, and (3) a math review. One special service is the ability to check your grades confidentially on the web. We are going to a version of WebCT, called VISTA. More information to come later.
## Tentative Calendar

<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
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<tbody>
<tr>
<td>8/31</td>
<td>9/1</td>
<td>9/2</td>
<td>9/3</td>
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<td>9/5</td>
</tr>
<tr>
<td><strong>Introduction</strong></td>
<td><strong>CHAPTER 15</strong></td>
<td><strong>Chemical Thermodynamics</strong></td>
<td>Rd: pp. 591-645</td>
<td><em>Last day to add new courses</em></td>
<td><em>Beginning of Q Drop</em></td>
</tr>
<tr>
<td>9/7</td>
<td>9/8</td>
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<tr>
<td><strong>CHAPTER 15</strong></td>
<td><strong>Chemical Thermodynamics</strong></td>
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<td><strong>Chemical Thermodynamics</strong></td>
<td><strong>Weekly Review Session</strong></td>
<td><strong>Rm 100 Held 2pm</strong></td>
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<td>9/14</td>
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<td>9/16</td>
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<td>9/18</td>
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<tr>
<td><strong>Weekly Review Session</strong></td>
<td><strong>CHAPTER 16</strong></td>
<td><strong>Kinetics</strong></td>
<td>Rd: pp. 646-706</td>
<td><strong>Weekly Review Session</strong></td>
<td><strong>Rm 100 Held 2pm</strong></td>
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<tr>
<td><strong>Exam Review Session</strong></td>
<td><strong>CHAPTER 16</strong></td>
<td><strong>Kinetics</strong></td>
<td><strong>CSB due 5pm</strong></td>
<td><strong>Exam Review Session</strong></td>
<td><strong>Rm 100 Held 2pm</strong></td>
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<td>9/28</td>
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<tr>
<td><strong>CHAPTER 17</strong></td>
<td><strong>Chemical Equilibrium</strong></td>
<td><strong>CHAPTER 17</strong></td>
<td><strong>Chemical Equilibrium</strong></td>
<td><strong>Rd: pp. 607-751</strong></td>
<td><strong>Last Day for BOPs Set I</strong></td>
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<tr>
<td>10/5</td>
<td>10/6</td>
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<tr>
<td><strong>CHAPTER 17</strong></td>
<td><strong>Chemical Equilibrium</strong></td>
<td><strong>CHAPTER 18</strong></td>
<td><strong>Ionic Equilibria I: Acids and Bases</strong></td>
<td><strong>Rd: pp. 752-791</strong></td>
<td><strong>MAKE-UP EXAM 1 4 pm Rm 100 Held</strong></td>
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<tr>
<td>10/12</td>
<td>10/13</td>
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<tr>
<td><strong>Weekly Review Session</strong></td>
<td><strong>CHAPTER 18</strong></td>
<td><strong>Ionic Equilibria I: Acids and Bases</strong></td>
<td><strong>Midterm Grades due to the Chemistry Department</strong></td>
<td><strong>CSB due 5pm</strong></td>
<td><strong>CSB due 5pm</strong></td>
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<td>10/19</td>
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<tr>
<td><strong>Exam Review Session</strong></td>
<td><strong>CHAPTER 19</strong></td>
<td><strong>Ionic Equilibria II: Hydrolysis and Titrations</strong></td>
<td><strong>Rd: pp. 793-821</strong></td>
<td><strong>8 - Thermochemistry 21 - Thermodynamics</strong></td>
<td><strong>CSB due 5pm</strong></td>
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</table>

**Notes:**
- **Rm 100 Held 2pm**
- **CSB due 5pm**
- **EXAM 1**
- **EXAM 2**
- **BOPs DUE**
<table>
<thead>
<tr>
<th>Sunday</th>
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<tr>
<td>Weekly Review Session</td>
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<td></td>
<td>Last Day for BOPs Set II</td>
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<tr>
<td>Rm 100 Held 2pm</td>
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<td>MAKE-UP EXAM 2 4 pm</td>
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<td>Rm 100 Held</td>
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</tbody>
</table>

**CHAPTER 19**

Ionic Equilibria II: Hydrolysis and Titrations
Rd: pp. 793-821

**CHAPTER 20**

The Solubility Product Principle
Rd: pp. 822-846

**CHAPTER 21**

Electrochemistry
Rd: pp. 847-899

**CHAPTER 26**

Nuclear Chemistry
Rd: pp.1002-1038

**CHAPTER 27/28**

Organic Chemistry Selected Topics
Rd: pp. 1040-1105

**CHAPTER 28**

Organic Chemistry Selected Topics
Rd: pp. 1040-1105

**EXAM 3**

- Buffers
- Hydrol.
- (parts 1,2,3)

**BOPs DUE **

**BOPs DUE **

Set IV

**EXAM 3**

Make certain all your CSB work is in the system.-

**EVALUATIONS**

Last Day for BOPs Set III

CSB due 5pm

22 - Electrochemistry

Office Hours:
2pm - 5pm

Rm 100 Held
CHEMISTRY 102 Lab/Recitation
for
SECTIONS 515 - 524
Dr. Wendy L. Keeney-Kennicutt

Policy on Safety and Breakage

Before working in this laboratory/recitation portion of the course, every student must read the “Laboratory Safety” rules in the laboratory manual plus any Departmental Rules and agree in writing to abide by these rules. It is imperative for your safety that you and everyone around you strictly adhere to the Safety Rules.

Failure to comply with the safety regulations (e.g., by not wearing eye protection at all times; by wearing open-toed shoes, short skirts or shorts without also wearing a labcoat or apron; by running an unauthorized experiment; or by removing chemicals or equipment from the lab) may result in dismissal from this portion of the course or deduction of points on your reports.

You will be utilizing equipment furnished by the Chemistry Department. It is your responsibility to properly maintain the equipment while it is in your care. If equipment that has been entrusted to you is not returned in satisfactory condition, you will be held responsible for it.

Lab/Recitation Grading and Absence Policy

Absences: The following schedule gives the date that each experiment, quiz, recitation activity, etc., is to be completed. Excused absences must be reported to your instructor in a timely manner. Only the instructor can arrange make-up sessions for students who missed due to a university approved reason.

Data Sheets: A data sheet must be submitted at the end of the lab period to receive a grade for that day’s experiment. The data sheet may not be graded in some sections; however, the Report Form for the corresponding experiment will not be graded if the data sheet is not submitted the day the experiment is conducted.

Prelabs, Reports, and PostLabs: For each experiment you will receive a total score between 20 and 0. Prelabs are worth 5 points, lab reports are worth 10 points, and the post-labs are worth 5 points (unless stated otherwise). The Report Form must reflect information obtained by you while in the laboratory and recorded on your data sheets. The Prelab Exercises associated with each experiment are due before you start the experiment. Report Forms and PostLabs are usually due the week after the experiment was run. Neatness and completeness of your data sheets, prelabs, reports, and postlabs may be considered when points are assigned. Points will be deducted for materials not submitted on the date due. Materials more than two weeks late will not be graded unless you have a university approved excuse.

Calibrated Peer Review (CPR): Calibrated Peer Review (CPR©) is web-based software designed to increase the amount of writing done in our classroom on Chemistry topics. Hopefully we will be including 2 assignments and we will be taking the best 1 of 2 assignment. Each assignment will be worth 20 points - same as a lab. More information will be forthcoming.

Lab/Recitation Quizzes: Quizzes (20 points each, usually 3 or 4 points per question) are scheduled at various times during the semester. The quizzes will reflect what you should have gained from previous weeks’ experiments, what you should master before beginning the current week’s experiment, your understanding of the exercises on the assigned CSB programs, your ability to utilize techniques and concepts, and your understanding of the recitation topics discussed in lab.

Grades: At the end of the semester the scores on all quizzes, prelabs, reports, postlabs, CPR scores and written final (40 points) will be totaled for each student and multiplied by a factor so that the class average will be between 80 and 86. Adjusted averages of greater than 100% will be treated as if they are exactly 100%.

Plagiarism: See X. in the syllabus. Plagiarism in laboratory courses is common, largely because students think that the lab report is not as important as other assignments. NOT TRUE!! Academic dishonesty in lab as well as lecture will not be tolerated. So, please do your own work. Your data will be the same as your lab partner, and you can study together, but the writeup MUST be in your own words. The TA and myself don't want to fail you because you copied someone else's work, but we will.

Schedule: The schedule is as follows on the next page. There may be differences between this one and others. THIS ONE IS THE CORRECT ONE FOR THIS CLASS AND THE ONE FOR WHICH YOU ARE RESPONSIBLE!
<table>
<thead>
<tr>
<th>Week of</th>
<th>Investigation</th>
<th>Report and Post Lab Due</th>
<th>Tentative Recitation Topic</th>
<th>Calibrated Peer Review (CPR)</th>
<th>CSB</th>
<th>Lecture Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/1</td>
<td>No Lab/Recitation Meeting this week. Double check your schedule. All scheduling conflicts must be resolved this week.</td>
<td>-</td>
<td>-</td>
<td>To be announced</td>
<td>Due Friday at 5pm of the given week</td>
<td>All are on Tuesday's</td>
</tr>
<tr>
<td>9/8</td>
<td>Introduction Lab Check-in and Lab Lecture on Safety Read the safety rules and agree in writing to know them or else you cannot do experiments.</td>
<td>-</td>
<td>Significant Figures Math Quiz Discuss CPR</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>9/15</td>
<td>Exp. #16 - Enthalpy of Reactions - Guided Inquiry Prelab is due at beginning of lab. You will be assigned a lab partner. Hand in Data Sheet before leaving lab.</td>
<td>-</td>
<td>Chemical Thermodynamics: How a calorimeter works (Chapter 15) Discuss CPR.</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>9/22</td>
<td>Exp. #18 - Kinetics of Decomposition of Hydrogen Peroxide - Guided Inquiry Work in partners. Hand in Data Sheet before leaving lab.</td>
<td>#16</td>
<td>How to graph data (see App. on CSB - really good!) Chemical Kinetics (Chapter 16)</td>
<td>8, 21 Exam 1</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>9/29</td>
<td>QUIZ 1</td>
<td>#18</td>
<td>Review: Thermodynamics and Kinetics</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>10/6</td>
<td>Exp. #19 - Factors Affecting Reactions -Guided Inquiry Hand in Data Sheet before leaving lab.</td>
<td>-</td>
<td>Review: Equilibrium Concepts (Chapter 17)</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>10/13</td>
<td>Exp. #21 - Acids and pH - Guided Inquiry Hand in Data Sheet before leaving lab.</td>
<td>#19</td>
<td>Review: Acids and pH</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>10/20</td>
<td>QUIZ 2 &amp; Makeup Lab Week (you'll make up the lab you missed)</td>
<td>#21</td>
<td>Review - Factors Affecting Reactions &amp; Acids and pH</td>
<td>16, 17, 18 Exam 2</td>
<td>-</td>
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</tr>
<tr>
<td>10/27</td>
<td>Exp. #22 - Reactions of Acids and Bases - Guided Inquiry Hand in Data Sheet before leaving lab.</td>
<td>-</td>
<td>Review: Acids and Bases</td>
<td>-</td>
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<tr>
<td>11/3</td>
<td>Exp. #23 - Acids and Bases Open Inquiry Hand in Data Sheet before leaving lab</td>
<td>#22</td>
<td>Preview: Organic Chemistry Give out Handout on Organic Chemistry</td>
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<tr>
<td>11/10</td>
<td>QUIZ 3</td>
<td>#23</td>
<td>Review Acids/Bases</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>11/10</td>
<td>Exp. #27 - Organic Molecules Guided Inquiry</td>
<td></td>
<td>Preview: Organic Chemistry Give out Handout on Organic Chemistry</td>
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<tr>
<td>11/17</td>
<td>#24 - Electrochemistry. Guided Inquiry Hand in Data Sheet before leaving lab.</td>
<td>#27</td>
<td>Electrochemistry: The Voltaic Cell (including the Concentration Cell) (Chapter 21)</td>
<td>19, 20 (Parts 1, 2, 3 only)</td>
<td>Exam 3</td>
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<tr>
<td>11/24</td>
<td>THANKSGIVING HOLIDAY (Make up Labs - date to be announced)</td>
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<td>12/1</td>
<td>Written Final (40 points). Evaluations. All missing work, make-up finals, requests for the grade of &quot;incomplete,&quot; make-ups of prior incomplete grades, etc., must be completed and all forms submitted before 5 pm Dec. 9 if they are to be considered in this semester’s records.</td>
<td>#24</td>
<td>-</td>
<td>22 Make certain the final version of your CSB work is in the system.</td>
<td>-</td>
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