Welcome to CHEM 102. As the science that describes matter, chemistry is central to our understanding of many fields from health to the environment to the evaluation of materials. Rapid new developments in very diverse areas virtually guarantee that chemistry will become even more important in the years to come. Knowledge of chemistry will surely be a vital ingredient in your liberal arts education and an essential foundation for your technical education. As educated citizens, it is likely that it will be important for you to be able to understand, interpret, and evaluate information that involves the molecular world. Check with your advisor if you have any doubts concerning the suitability of this course for your degree.

CHEM 101 and 102 are the first-year chemistry sequence in the core curriculum. These are 4-credit courses. The sections in this lecture are a part of a much larger program. Those of us in the First Year Chemistry Program and the Chemistry Department at Texas A&M University are committed to providing a meaningful and stimulating course. Each grouping of sections of this course is independent of the other instructors’ sections, but we strive to cover common content, etc.

This handout outlines the course policies for the sections listed above and any section of mine that might have been added during the week before the start of classes. Other instructors’ policies may differ slightly. You should read this material carefully to familiarize yourself with the various rules and procedures, especially those which govern examinations and grades. The objectives of this course are to develop your:

1) problem-solving skills and critical thinking abilities,
2) knowledge of general concepts in chemistry,
3) understanding of chemical terminology used in society,
4) ability to perform basic chemistry calculations,
5) appreciation of the importance of chemistry in society, and
6) positive attitudes towards chemistry.

Learning objectives (what you should be able to do) will be given at each lecture. I expect you to have the following prerequisites:

1) basic math and chemistry skills, which you have demonstrated in CHEM 101
2) curiosity about the world around you
3) willingness to learn (even though your friends say chemistry is yucky)
4) commitment to attend each class (Chemistry "builds” on itself, thus you are lost if you miss earlier steps)
5) commitment for regular study (starting the first day!) 6-10 hours per week is average for reading and problem solving, preferably some time every day. NOTE: We MOVE FAST!

At the end of this handout, you will find two calendars, which contain (1) exam dates, reading assignments, and schedule for lecture and (2) the laboratory/recitation section schedule. In order to get the most out of lectures in this course, it is beneficial that you come to class prepared. Likewise, in order to get the most out of laboratory/recitation; come to each session prepared for the scheduled activities.

In the First Year Chemistry Program, we try to make ourselves approachable both in and outside the classroom. Feel free to call upon me whenever you have a question. Subsequent sections will give the details concerning the Information Desk, the Help Desk, Exam Reviews, and Web pages for this course. I look forward to a good semester.  

Vickie M. Williamson 1/10/04
COURSE POLICIES

Required Materials:
(2) Calculator suitable to use on lecture exams. Calculators may not have multi-line screen or extensive memory. (See later discussion.)
(4) The lab notebook (8 1/2” x 11”, perforated alternating white and yellow pages with carbon paper).
(5) Approved eye protection. University and Departmental Regulations require that splash-proof, chemical goggles be worn by everyone present any time any experimentation is being conducted or any time chemicals or equipment are being moved by anyone in the laboratory. (The Graduate Chemistry Fraternity will sell suitable goggles on the 4th floor; see the posted schedule). Failure to wear goggles will result in expulsion from the laboratory for the experiment involved.
(6) FIVE standard (8 1/2” x 11") gray scanning sheets (Form No. 0-101607-TAMU) from the bookstore and turn them in unmarked to Room 123 Heldenfels during the Information Desk hours (see Section XIII).
(7) “Access Code for entry into OWL (Online Web Learning)” Thomson Leaning College Publishers (This was wrapped with your textbook.) See me about how to apply for a free code.

Optional Materials:
(2) Laboratory apron or a nonflammable lab coat. An apron or lab coat will be required in laboratory if your shorts or skirt do not cover your knees.

Lecture Reading Assignments: Lectures are designed to help you in developing an understanding of the material being emphasized. To get the most out of lecture, one should always keep up with the assigned reading. Specific reading assignments will be given in lecture. With some chapters, you will be asked to read ahead of lecture, with others behind lecture Tentative chapters are shown in the Calendar.

Lecture Homework Assignments: Homework problems will be assigned for each topic of study from the textbook and from On-line Web Learning (OWL). The textbook problems are for your practice, but a picked to be similar to those on exams. Approximately 6 sets of homework will be assigned for credit from OWL. Each set of homework will be worth 12 points, for a total of 72 points for the semester. Homework MUST be turned in on time. The purpose of homework is to prepare you for exams. Additional details will be given in class.

Percentage of instructional units correctly completed and turned in on time

<table>
<thead>
<tr>
<th>Percentage</th>
<th>&lt;40%</th>
<th>40-49%</th>
<th>50-59%</th>
<th>60-69%</th>
<th>70-79%</th>
<th>80-89%</th>
<th>90-94%</th>
<th>≥95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number added to your course points</td>
<td>0</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
</tbody>
</table>

Lecture Attendance: I will not be taking attendance as such throughout the semester. However, to encourage you to attend class, there will be periodic in-class quizzes that will account for part of your lecture grade (see Section VI). YOU SHOULD ATTEND ALL CLASSES

Quizzes: During the semester, you will have UNANNOUNCED quizzes during the semester. Each quiz will be worth 4 points. You may count the best 9 quizzes. There will probably be 12-13 quizzes totally. (as many as 15-17 in the past). There are no make-up quizzes; if you miss one, it will be one you drop. I prefer to quiz often; quizzes may be in various formats. Quiz problems may be taken from the assigned problems, demonstrations, material covered
in lecture, etc. Quizzes may be individual or group. Quizzes have two purposes: 1) to set
deadlines to encourage you to keep up, and 2) to give me an idea of your understanding of
the concepts.

Lecture Exams: There will be 4 lecture exams (Exams 1, 2, 3 and 4) given on the days indicated on
the Calendar. Additionally, there will be a Final Exam. These exams may include combination
of multiple choice questions that will be machine graded and non-multiple choice questions that
will be hand graded.

(A) Lecture Exams: These are 45-minute exams given during the regular lecture times.
Each carries a value of 100 points. Exam 1 will tentatively cover material from Chapters 15
and 16. Exams 2, 3 and 4 will concentrate on the block of material covered after the
previous exam; one or more review questions will also be included. You MUST have a
Photo I.D. in order to take exams.

*BAt the end of the semester, the lowest of the four regular exams will be dropped and
will be replaced by the average of the remaining three exams.

(B) Final Lecture Exam: The Final Exam will be a 2-hour, 204-point exam covering all the
chapters taught during the semester. The final will be COMPREHENSIVE. The final is
scheduled for Tuesday, May 11, 2003 from 3:30-5:30PM in Room 100 Heldenfels.
Please do not expect to take the final exam at any time other than its scheduled time, unless
you have made arrangements with me. You must bring a PHOTO I.D. to the Final
Exam. Do not be LATE; as soon as the first person has left the final, no one will be allowed
to begin the final.

(C) Make-up Lecture Exam: IF YOU MISS AN EXAM, IT WILL BE THE ONE OF THE
FOUR THAT YOU WILL DROP. For students who have extreme emergencies and who
also notify me (the instructor) within 2 academic days (M, T, W, R, & F), a make-up test
will be arranged. I require a written statement about the excuse for the absence. The make-
up exams will be at least as difficult as the regular exams.

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) Arrive at the exam on time. Cheating or bringing in material with intent to cheat will
result in a zero for the exam or a more severe penalty.

(C) Bring to the exam at least two sharpened #2 pencils, an eraser, and a PHOTO I.D.
your TAMU I.D. card or a driver’s license will work). 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 stored at the front of the room before taking the assigned seat.

(D) Students can not 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.

(E) Follow the directions given to you as you enter 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.

(F) 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.

(G) 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 be able to see your
grades on the World Wide Web. Details in the web are below.

Review Schedule:
I will conduct Review Sessions before each exam. These are on the calendar. Other review
sessions may be arranged for other dates and times. Times and rooms for reviews may need to be
changed - watch the bulletin boards and announcements.

**Laboratory:**
See the laboratory syllabus.

**Bulletin Boards:**
Special announcements (schedule changes, etc.) will be posted on the official bulletin boards (Rooms 100 & 413). In addition, solutions to quizzes will be posted for this class in the bulletin board near room 122 Heldenfels. We also have an electronic bulletin board described below.

**Course Info via the Web:**
(ftp://www.chem.tamu.edu/class/fyp/fypintro.html)
The web pages for this course can be accessed through the First Year Chemistry Program’s homepage as listed below or indirectly by going to the TAMU Chemistry Department’s homepage (http://www.chem.tamu.edu) then going to Academic, then to courses and click on the First Year Chemistry Program. When you are in the First Year Chemistry Program’s home page, choose the course (CHEM 101), followed by our section. On the page for our section, you can find this syllabus, sample problems, math review, and test bank on the web. On Williamson’s home page you can find the latest news, objective list, laboratory info, grade check, etc. BOOKMARK AND CHECK THIS SITE FREQUENTLY.

**Grade Information via the Web:**
You can check your grades confidentially on the web. This will be done from Williamson’s home page. You will be given your username and password in class.

**Information Office and Help Desk:**
The Information Office is at Room 116 HELD. Office Hours are Monday through Friday, 8:30-12:30 A.M, Monday through Thursday 1:30-4:30 P.M. and Friday 1:30-2:30 P.M. Questions can be answered there pertaining to your course records, homework, etc. This is also where you turn in your scantron sheets, request to have the multiple-choice part of exams hand graded when you believe the posted grade is incorrect, and reserve special exam seating. A Help Desk will also be staffed in Room 116 during about the same hours as the Information Office is open. At Help Desk TA’s are on duty to answer questions concerning lab and lecture. Check outside of Room 116 for the exact schedules.

**Copyright:**
The handouts used in this course are copyrighted. By “handouts,” I mean all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems or study sheets, in-class materials, review sheets, and additional problem sets, notes, etc. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission.

**Academic Dishonesty:**
Students are expected to be the sole source for any work submitted in their name. The utilization or submission of work of others is a violation of Texas A&M University scholastic dishonesty policies and disciplinary steps will be taken. Only authorized electronic or printed materials or equipment may be used in or near the classroom. As commonly defined, plagiarism consists of passing off as one’s own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research and knowledge cannot be safely communicated.

Study groups can be a valuable aid to learning. Within the group you should discuss your answers to homework problems. Your group can discuss questions with other groups. Quizzes, exams and the final must be done on your own, unless otherwise specified by the
instructor. Academic dishonesty will not be tolerated in any form and will be reported to the proper university officials. Expulsion for academic dishonesty does not look good on one's permanent record and is not worth the points you are trying to gain by cheating. If you have questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section “Scholastic Dishonesty.”

Texas A&M 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: 8 AM to 5:30 PM). If you have any questions, see me.

Help: You can do nine things to improve your grade:
1) Attend all class periods.
2) Keep up with your assigned reading and do the homework problems.
3) Come to class prepared (ask questions if you don't understand).
4) Take all tests and quizzes.
5) See me during office hours or make an appointment with me to discuss anything you don't understand or can't work.
6) Use the Chemistry Department Help Desk in Room 123. Go to SI Sessions. These are free services.
7) Try a study group. Some will work, while others will not.
8) As a last resort, engage a tutor for hire. Tutors who can give you individualized help are best.
9) Follow Williamson’s Study Rules

Grade Calculations: Grades will be calculated on a point basis.

<table>
<thead>
<tr>
<th>Lecture Points Possible:</th>
<th>% of course grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework (6 @ 12 pts each)</td>
<td>72</td>
</tr>
<tr>
<td>Exams (4 @ 100 points each)*</td>
<td>400</td>
</tr>
<tr>
<td>Quizzes (best 9@ 4 points each)</td>
<td>36</td>
</tr>
<tr>
<td>Comprehensive Final</td>
<td>202</td>
</tr>
<tr>
<td>Total Lecture Points</td>
<td>710</td>
</tr>
</tbody>
</table>

Lab Points Possible:
Laboratory equalization pts.(bonus; not counted in total)
Laboratories (prelab, report form)
(9 @ 18 each) | 162 | 16.8 |
Lab quiz (3 @ 18 points each) | 54 | 5.6 |
Written Final | 36 | 3.7 |
Total Lab Points | 252 | 26.1 |

TOTAL POINTS FOR THE COURSE | 962 | ~100.0 |

Final Grade Cut-Off: A 962-865
B 864-769
C 768-673
D 672-577
F 576-- 0
You can be assured of the letter grade that is indicated if you fall in the above ranges. The final grade cut-off may be slightly lowered at the end of the semester. Each semester's ranges and each lecture sections' ranges are independent of each other.

Students missing a small portion of the course will receive a grade of "I" (Incomplete) if they request this grade and meet the University criteria for this temporary grade.

Important Dates:

Jan. 23: Last day to drop a course with no record.
Jan. 26: Beginning of Q drop. Last day to add a class or change sections.
Mar. 4: Midsemester Grades Due in Chemistry Department
Mar. 15-19 Spring Break
April 5: Last day to Q drop a course.
April 9: Reading Day (No Classes)
May 3: Dead day (No Scheduled Exams)
May 4: Dead day (No Scheduled Exams) - Re-defined day (go to FRIDAY classes)
May 5-6 Reading Days (No Classes or Scheduled Exams)
May 11: Final Lecture Exam for Chemistry 102, Sections 557-568
         3:30-5:30 PM., Rm. 100 Held

TENTATIVE Lecture Schedule:
See the attached schedule. Note: This is a tentative schedule. Topics and chapter references are subject to change. Special announcements and schedule changes will be announced at the beginning of the lectures.

PLEASE KEEP A RECORD OF YOUR LECTURE POINTS ON THE TABLE BELOW.

<table>
<thead>
<tr>
<th>Quizzes</th>
<th>Points Received:</th>
<th>Exams</th>
<th>Points Received:</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td></td>
<td>#1</td>
<td></td>
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<tr>
<td>#2</td>
<td></td>
<td>#2</td>
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<td>#3</td>
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<td>#3</td>
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<tr>
<td>#4</td>
<td></td>
<td>#4</td>
<td></td>
</tr>
<tr>
<td>#5</td>
<td></td>
<td>Final:</td>
<td></td>
</tr>
<tr>
<td>#6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>#7</td>
<td></td>
<td>Quiz best 9:</td>
<td></td>
</tr>
<tr>
<td>#8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>#9</td>
<td></td>
<td>Hwk #1 points:</td>
<td></td>
</tr>
<tr>
<td>#10</td>
<td></td>
<td>Hwk #2 points:</td>
<td></td>
</tr>
<tr>
<td>#11</td>
<td></td>
<td>Hwk #3 points:</td>
<td></td>
</tr>
<tr>
<td>#12</td>
<td></td>
<td>Hwk #4 points:</td>
<td></td>
</tr>
<tr>
<td>#13</td>
<td></td>
<td>Hwk #5 points:</td>
<td></td>
</tr>
<tr>
<td>etc.</td>
<td></td>
<td>Hwk #6 points:</td>
<td></td>
</tr>
</tbody>
</table>
The laboratory manual is composed of 3 types of experiments. Guided inquiry experiments ask you to use your data to find generalizations; therefore, this type is designed to be an introduction to the topic before it is discussed in lecture. The emphasis is on using your data. Open inquiry experiments require you to design an experiment concerning a topic that you have studied. The open inquiry labs deal with applying the idea in a new setting. The skill building experiments are designed to develop techniques, not necessarily new content knowledge.

**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.

**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 lab teaching assistant (TA) in a timely manner with a written excuse. Your lab TA will arrange a makeup lab for those who missed due to an approved reason. You can often makeup a missed lab later in the week with another lab section taught by your own lab TA or another Williamson TA, if there is room in the section. Otherwise, with your TA’s approval, you will be assigned to one of the makeup lab sessions held on the Thursday evening of the following week. Those with approved absences and class conflicts on Thursday evening will see the instructor for other options. Makeup quizzes will be arranged with your TA.

**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 and Reports:**

For each experiment you will receive a total score between 18 and 0. Prelabs are worth 3 points, and the report form is worth 15 points. The Prelab Exercises associated with each experiment are due before you start the experiment. Report Forms are divided into Data, Analysis, and Postlab Questions. The Report Form **must reflect information obtained by you** while in the laboratory and recorded on your data sheets. The report form is due the week after the experiment was run. Neatness and completeness may be considered when points are assigned. Points will be deducted for materials not submitted on the date due. Materials more than one weeks late **will not** be graded unless you have a university approved excuse.

**Lab/Recitation Quizzes:**

Three lab quizzes (18 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 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 (3 @ 18 pts), prelabs/reports (9 @ 18 pts), and written final (36 pts.) will be totaled for each student (262 points possible). To this number, there MAY be a number of lab equalization points also added. To calculate the number of lab equalization points, the average number of points for the class will first be calculated. If the average number of points for the class is below 209 (80 % of the points possible), then the number of points needed to get to this point will be added to each students points. The average number of points may fall between 209 and 225 points (80 to 86% of the possible points).

102-WILLIAMSON LAB SCHEDULE:
The following schedule is TENTATIVE and may differ from that for other instructors. YOU ARE RESPONSIBLE FOR THIS SCHEDULE AND ANY CHANGES THAT ARE ANNOUNCED.

<table>
<thead>
<tr>
<th>Week of:</th>
<th>Tentative Problem Solving Session</th>
<th>Prelab Due</th>
<th>Laboratory Investigation/Activity</th>
<th>Quiz (emphasis)</th>
<th>Report Form Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/19</td>
<td>-</td>
<td>-Lab DOES NOT MEET-</td>
<td>Lab ck-in</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>1/26</td>
<td>Safety:Thermodynamics (Chp. 15)</td>
<td>#16</td>
<td>#16-Enthalpy of Reactions (guided)</td>
<td>#19-Factors Affecting Reactions (guided)</td>
<td>#16</td>
</tr>
<tr>
<td>2/2</td>
<td>Calorimetry (Chapter 15)</td>
<td>#16</td>
<td>Inv. #18 – Kinetics of the ---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>2/9</td>
<td>Kinetics (Chp. 16)</td>
<td>#18</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>2/16</td>
<td>Equilibrium (Chp. 17)</td>
<td>#19</td>
<td>#19-Factors Affecting Reactions (guided)</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>2/23</td>
<td>Acids, Bases (Chp. 18)</td>
<td>#21</td>
<td>#21-Acids and pH (guided)</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>3/1</td>
<td>Review Standardization (Chp. 11)</td>
<td>#22</td>
<td>#22-Reactions of Acids and Bases (guided)</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>3/8</td>
<td>Weak acid/strong base titrations (Chp. 19)</td>
<td>#23</td>
<td>#23-Acids and Bases (open)</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>3/15</td>
<td>---</td>
<td>---</td>
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<td>---</td>
</tr>
<tr>
<td>3/22</td>
<td>Review Acid/base (Chps. 18 &amp; 19)</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>3/29</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>4/5</td>
<td>Help with balancing 1/2 reactions (Chp.21)</td>
<td>#26</td>
<td>#26-The Copper Cycle (open)</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>4/12</td>
<td>Help with Electrochemistry; voltaic cells (Chp.21)</td>
<td>#24</td>
<td>#24-Electrochemistry (guided)</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>4/19</td>
<td>Models, Bonding, Shapes, and Names of Organic Cmpds (Chap. 27 preview)</td>
<td>#27</td>
<td>#27-Organic Molecules (guided)</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>4/26</td>
<td>Lab Final: 36 pt written. Evaluations All missing work, make-up finals, requests for incomplete grades must be completed and all forms submitted before 5 PM April; 28</td>
<td>---</td>
<td>lab Final: 36 pt written</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>5/3</td>
<td>no labs</td>
<td>---</td>
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</table>