Course Policy for Chemistry 102A

INSTRUCTOR FOR CHEM 102A: Tom Hummel
3016 Chem Annex, 333-9111
Zoom Office Hours: Tuesdays 10-11,
Thursdays 10-11
tjhummel@illinois.edu

HOMEPAGE: http://chemistry.illinois.edu/clc/courses/chem-102-hummel

REQUIRED MATERIALS:

1. ***Chemistry-An Atoms First Approach***, 2nd ed., Zumdahl & Zumdahl
2. ***Student Solutions Guide for Chemistry-An Atoms First Approach***, 2nd ed.,
3. Electronic calculator with log function

WHEN AND WHERE:

1. Chem 102A will be totally online this semester (except for most Merit students). In general, each week there will be two asynchronous lecture videos to watch and two Zoom discussion (quiz) sections. The exception to this are most Merit discussion sections which will meet in person. The lecture videos are accessed through Lon Capa (a link to Lon Capa is on our homepage) and the schedule of when to watch the various videos is on our assignment pages. The discussion sections are on Wednesdays and Fridays at the time indicated on your schedule. Major ideas will be introduced in lecture while discussion of these concepts, homework assignments, and related problem solving will take place during quiz sections. Your TA will email you the Zoom link for the online discussion sections. The Zoom link for Tom Hummel's office hours will be posted on Lon Capa and also on our website.

2. Participation is very important in all facets of the course. One of the easiest ways to learn is to pay attention during lecture videos and discussion section, and to take good notes. Some of the material and applications covered in 102A are not presented in the text, so lecture and discussion notes will be one of your primary resources. Also, grades of zero are assigned when homework assignments and quizzes are missed. These have a real and adverse effect on semester grades.

3. Most students are required to take Chem 103, General Chemistry Laboratory, along with Chem 102. This 1 hour lab course provides demonstration of principles covered in Chem 102B/C. Reference the Chemistry 103 Experiments book for details concerning Chem 103. Chem 103 is totally online this semester.

GRADING:

Lon-Capa Homework	70 pts.
Text Homework	30 pts.
Quizzes (6 total, no quizzes dropped)	100 pts.
Hour Exams (100 pts. each)	300 pts.
Final Exam	300 pts.
Total	800 pts.

Hour exam grades and the final exam grade will be scaled so that 90-100 = A, 80-89 = B, 70-79 = C, 60-69 = D and 0-59 = F. At the end of the semester, the course director will sum all the points together (800 total points) and will set overall course grades according to the 90, 80, 70, 60 scale, i.e., 800-720 = A, 719-640 = B, 639-560 = C, 559-480 = D and below 480 = F. With the plus/minus grading system, the grade cut-offs will be set so that 100-93.0% = A, 92.9-90.0% = A^-, 89.9-87.0% = B^+, 86.9-83.0% = B, 82.9-80.0% = B^-, 79.9-77.0% = C^+, 76.9-73.0% = C, 72.9-70.0% = C^-, 69.9-67.0% = D^+, 66.9-63.0% = D, 62.9-60.0% = D^- and below 60.0% = F. Note: As explained below, the Lon-Capa homework grade will not be scaled.

Lon-Capa Homework Grade: Most weeks you will have electronic homework sets assigned which we call Lon-Capa homework. The Lon-Capa assignments can be accessed from the 102A homepage (http://chemistry.illinois.edu/clc/courses/chem-102-hummel). Sign-on instructions for Lon-Capa will appear after you select the Lon-Capa link on our homepage. The Lon-Capa password is your active directory (AD) password. The list of due dates for the various Lon Capa homework sets is on p. 6 of this handout. The Lon Capa assignment due dates are always at 9 a.m. Tuesday.

Your Lon-Capa homework grade (70 points) will be determined by how many of the assigned problems you complete correctly. Each problem is assigned a point total. You receive all these points when you successfully answer that problem correctly (assuming all work is done before the deadline). Any work after the deadline will not earn any credit (no exceptions). The Lon-Capa system will keep a running total of all points earned during the semester. At the end of the semester, we will prorate your total points earned from the online homework sets into a 70 point grade. If you do all assigned problems correctly by the deadline then you will earn a 70 (a perfect score) for your Lon Capa homework grade. If you do 90% of the assigned homework problems correctly then you will earn a 63 for your homework grade, etc. Since students can attempt all problems as many times as they want before the deadline, there is no reason for any student in the course to have an online homework grade less than (or close to) perfect (70).

Text Homework: To do well in this course, you must do the assigned text problems as well the online homework problems. The assigned text homework problems have odd and even numbered questions and exercises. The odd numbered problems are answered in the Student Solutions Guide while the even numbered problems are not answered in this solutions manual. At various times during the semester, we will collect your answers to the assigned even numbered text homework problems to make sure you are trying to solve these problems. The assigned Review Questions will not be collected. The 30 point text homework grade will be determined by how many of the assigned even numbered answers you turn in. If you try to solve all even numbered problems and turn them in on time, then you will receive a grade of 30. Note:

TAs will only check to see if you attempted the even numbered problems and will not correct your mistakes. It is your responsibility to have correct answers. We will post detailed solutions to all even numbered assigned homework problems and assigned Review questions on Lon Capa

Quiz Grade: During the semester, you will take six 50-60 minute online quizzes on dates to be announced. The quizzes will be accessed through Lon Capa. The purpose of the quizzes is to help you prepare for hour exams (content and time management). At the end of the semester, the score totals of the six quizzes will prorated into a 100 point quiz grade. **No quizzes will be dropped and the quizzes will not be scaled.** Note: All missed quizzes will result in a grade of zero, unless excused by the course director. In order to receive an excused grade, you must have a documented excuse or a letter from the Emergency Dean stating the reason for your absence. If you receive an excused quiz grade, then an average grade of all your other quizzes will be assigned for the excused grade.

EXAMS:

1. We will take three exams during the semester on Wednesday March 3, Wednesday April 7, and Monday May 3. All exams are from 7:00-8:50 pm. The Computer Based Testing Facility (CBTF) online system will administer the electronic exams. Details regarding the CBTF online system are found at https://cbtf.engr.illinois.edu/. Conflict exams will available through the CBTF online system; sign up details will be posted on Lon Capa. The final exam will also be available through the CBTF online system. The date and time will be posted as soon it is known.

2. No alternate make-up exams will be given. If you must miss both the exam and the conflict, contact Tom Hummel immediately. Your exam score will be prorated if you have a valid, documented excuse. (See University regulations.)

TO DO WELL IN THIS COURSE:

1. The discipline of chemistry and of this course in particular demand that you take responsibility for your own learning. Major learning takes place during study and problem solving; the instructors are here to guide your efforts, but you must supply the initiative and hard work.

2. In addition to Lon-Capa homework, there are assigned homework problems from the text. The assignments for the semester are posted on our website in a separate document titled Chemistry 102A assignments. In general, the reading assignment should be done before viewing the lecture videos and the assigned problems attempted before discussion section. Attempt to solve all the assigned problems, as most will emphasize different perspectives on a topic.

   Solutions to over one-half of the assigned problems in the textbook are available in a recommended supplement called the ***Student Solutions Guide for Chemistry***. Please use

this resource in a mature way. Copying the solution to a problem to satisfy a homework assignment does not provide the practice required to gain proficiency and to perform well on exams. In order to acquire problem solving skills (numerical and conceptual), independent problem solving is required. This is the ultimate purpose of homework.

3. The Lon-Capa homework sets are not inclusive of all the types of problems expected for you to master. This is why additional homework problems are assigned from the text. To do well in this course, you must take both formats for homework seriously.

4. Read the assignment carefully. We will not cover every section of every chapter. You are responsible for all the **assigned** reading and problems.

5. It is impossible to learn the material we cover in lecture and in quiz section if you do not do your assignments regularly. Do not fall behind; it is extremely difficult to catch if you do fall behind.

MISCELLANEOUS:

1. The Chemistry Learning Center (CLC) is a free resource staffed exclusively by general chemistry TAs to help students, whenever you need it! Visit the Virtual CLC at **chemistry.illinois.edu/clc/virtual-clc** to find links to:

   - **Drop-in Zoom** – Available Monday through Friday, 12 - 6 pm. General chemistry TAs are waiting to help; as you enter the meeting, enter your name and course into the chat. The host will move you into a breakout room with a CLC TA. Come and go as you please, or stay to work in a breakout room and ask for help as needed!
   - **Chemistry Learning Piazza (CLP)** – Follow the link on the Virtual CLC to post to our Piazza discussion board and receive help with homework questions! CLC TAs monitor the CLP from Monday – Saturday, 10 am – 6 pm.
   - **CLC Tutorials –** Over 30 tutorials written specifically for general chemistry at Illinois can be found at **chemistry.illinois.edu/clc/tutorials**!

   To receive the best help in the Virtual CLC:
   1. Make sure you have attempted all problems two or three times on your own.
   2. Keep your work nearby to help us locate mistakes.
   3. Be ready to screenshare or take a complete screenshot of the problem (including problem name and # of tries).

2. All grades in the course will be entered into an electronic gradebook which can be accessed from a link on our Chem 102A website. The address for the gradebook is: https://apps.atlas.illinois.edu/Gradebook/.

3. Staff located in the Fred H. Turner Student Services Building, 601 E. John Street, offer a counseling service for emotional problems, **test anxiety** and study skills. For critical problems and emergencies call the Emergency Dean at 333-0050.

4. The Office of Minority Student Affairs' (OMSA) Academic Services Center (ASC) offers free tutoring and academic services. Matched and drop-in tutoring along with Supplemental Instruction (SI), collaborative learning/study groups, and academic skills workshops are among the services featured in the OMSA ASC. OMSA's services are designed to help students achieve in college. The level of rigor at the University of Illinois is different than in high school or community college. No matter how you performed before attending Illinois, there is always room to examine and hone your study skills. To learn more about these services, visit https://omsa.illinois.edu/programs/tutoring/ or stop by the OMSA ASC located at 701 South Gregory Street, Suite I, Urbana, IL 61801.

5. If you have difficulty with any part of the course, please contact Tom Hummel or your TA promptly.

   The office hours for Tom Hummel are during your scheduled lecture times via zoom: **Tuesdays 10-11 am and Thursdays 10-11 am.** The links for these office hours are posted on Lon Capa and on our website (http://chemistry.illinois.edu/clc/courses/chem-102-hummel).

   If you need to get in touch with Tom Hummel, please e-mail him at tjhummel@illinois.edu and he will get back to you as soon as possible.

DETAILS FOR WEEK 1:

1. View this Course Policy video and the Lecture 1 video by Tuesday, January 26.

2. Attempt the assigned Tuesday Week 1 text homework problems before your discussion section on Wednesday.

3. Attend the first discussion section on Wednesday, January 27 (either through Zoom or in class for Merit students). Bring questions on course policy or on material covered in Lecture 1 or from the first text assignment. Note that nothing will be collected on Wednesday.

4. The first two online (Lon Capa) homework sets (called Homework 1 and Homework 2) are both due by 9 am Tuesday, February 9.

5. The online quiz 1 needs to be taken by 10 pm Wednesday, February 10. This quiz covers the material from the first five assignments. Your answers to the even-numbered assigned Zumdahl problems from the first five assignments will be collected on this quiz day. As always, answers to the assigned Review Questions are not collected.

CHEMISTRY 102A
LON-CAPA HOMEWORK DEADLINES

Homework #	**Due Date**
1 and 2	9 a.m. Tuesday, February 9
3	9 a.m. Tuesday, February 16
4	9 a.m. Tuesday, February 23
5	9 a.m. Tuesday, March 2
6	9 a.m. Tuesday, March 9
7	9 a.m. Tuesday, March 16
8	9 a.m. Tuesday, March 23
9	9 a.m. Tuesday, March 30
10	9 a.m. Tuesday, April 6
11	9 a.m. Wednesday, April 14
12	9 a.m. Tuesday, April 20
13	9 a.m. Friday, April 30

CALENDAR - CHEMISTRY 102A
Spring 2021

Week			M	T	W	Th	F	S
	1	January	**25 S**	26	27	28	29	
	2	February	1	2	3	4	5	
	3		8	9	10	11	12	
	4		15	16	17	18	19	
	5		22	23	24	25	26	
	6	March	1	2	**3 HE I**	4	5	
	7		8	9	10	11	12	
	8		15	16	17	18	19	
	9		22	23	24	25	26	
	10		29	30	31	1	2	
	11	April	5	6	**7 HE 2**	8	9	
	12		12	13	14	15	16	
	13		19	20	21	22	23	
	14		26	27	28	29	30	
	15	May	**3 HE 3**	4	**5 F**	6	7	
	16		10	11	12	13	14	

HE = Hour Exams S/F = Classes start/finish in Chem 102A

Final Exam Date: Chemistry 102A: To Be Announced