# Course Policy for Chemistry 102C/102D

**INSTRUCTOR FOR CHEM 102C/D:** Tom Hummel
3016 Chem Annex, 333-9111
Office Hours: Mon. noon-1:30 p.m. and
Wed. 10-11:30 a.m.
tjhummel@illinois.edu

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

**REQUIRED MATERIALS:**

1. ***Chemistry-An Atoms First Approach***, 3rd ed., Zumdahl & Zumdahl
2. ***Student Solutions Guide for Chemistry-An Atoms First Approach***, 3rd ed.
3. ***Handouts for Chemistry 102C/102D* – Spring 2024**
3. Electronic calculator with log function

**WHEN AND WHERE:**

1. There will be two lectures and two discussion (quiz) sections per week. The 102C lectures are held at 11 am and the 102D lectures are held at 9 a.m. The lectures are on Tuesdays and Thursdays in 100 NL and the discussion sections are on Wednesdays and Fridays in the room and time indicated on your schedule. Major ideas will be introduced during lecture while discussion of these concepts and homework assignments will take place during quiz sections.

2. Attendance is very important in all facets of the course. One of the easiest ways to learn is to pay attention in lecture and discussion and to take good notes. Some of the material and applications covered in 102C/D 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 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, concurrently with Chem 102. This 1-hour lab course provides active demonstration of principles covered in Chem 102C/D and introduces experimental skills. An initial email from the course director for Chem 103 will provide details concerning the course.

4. Tom Hummel's office hours are noon-1:30 pm Mondays and 10-11:30 am Wednesdays. These office hours are in person in my office in 3016 Chem Annex.

**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 and text homework grades will not be scaled while the 100-point quiz grade may 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 102C/D 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. In general, there are no extensions unless you have a good reason. If you believe you have a good reason for a deadline extension, email Tom Hummel (tjhummel@illinois.edu) immediately with your reason. Only Tom Hummel can extend Lon-Capa deadlines.

Your Lon-Capa homework grade (70 points) will be determined by the percentage of the assigned problems completed by the deadline. 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). 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, students in the course should have Lon-Capa homework grades of 70 out of 70 (or close to 70). The Lon-Capa grade is an effort grade; if you put in the effort, you get the points.

**Text Homework:** To do well in this course, you must do the assigned text problems as well as 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 etext while the even numbered problems are not answered in this solutions etext. 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 your effort to solve the assigned even numbered problems. 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 our Learning Management system called Lon Capa.

**Quiz Grade**: During the semester, you will take six 60-minute online quizzes on dates to be announced. You will be given a ~2-day period to take the quiz and you will access the quiz on 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 be prorated into a 100-point quiz grade. **No quizzes will be dropped.** I am not planning on scaling the quizzes. But if the scores on the 6 quizzes combined are too low, I will scale them so the grade distribution of the 100-point quiz grade is similar to the overall exam grade distribution. Note: All missed quizzes will result in a grade of zero, unless excused by the course director. If you believe you have a good reason for missing a quiz, contact Tom Hummel immediately after the missed quiz. Tom Hummel is the only one who can excuse a quiz. 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. The dates of the 3 exams are: Wednesday, February 21, Wednesday, March 27, and Wednesday, April 24. All exams are from 7:00-8:30 p.m. in rooms to be announced later. Conflict exams will be held from 5:15-6:45 p.m. on the same dates. You **must** sign up for conflict exams in **advance**. The conflict exam sign-up sheet will be in 1026 Chem Annex. Sign-up generally begins one week prior to the night of the exam. Note the room assignment when you sign-up for the conflict exam and bring a picture ID to the exam. Please see or email Tom Hummel if you need to take a conflict to the conflict exam.

   The **FINAL EXAM** for Chemistry **102C** is 7-10 p.m. Thursday, May 9, and the **FINAL EXAM** for Chemistry **102D** is 7-10 p.m. Tuesday, May 7. There will be no conflict times for the final. All students in the course must take the final in order to receive a course grade.

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 102C/D assignments. In general, the reading assignment should be done before lecture and the assigned problems attempted after lecture but before discussion (quiz) 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 the ***Student Solutions Guide for Chemistry*** **eText.** 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. To acquire problem solving skills (numerical and conceptual), independent problem solving is required. This is the ultimate purpose of homework.

3. Most of the materials presented in lecture during the semester are available in a required book called Handouts for Chemistry 102C/102D Spring 2024. Since we will be covering material very quickly, it is highly recommended that you obtain a copy of the Handouts book and bring it to lecture. This way you can concentrate on material being presented during lecture instead of furiously taking notes. If you have a previous edition of the Handouts book, you will be ok.

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

5. You are responsible for all the **assigned** reading and problems.

6. 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 provide help upon demand! The CLC is in 2021 Chem Annex, at the end of the 2nd floor hallway.

   **Walk-in help** is available **Monday – Friday, 9 am – 5 pm**. To receive help, follow the instructions at the front of the room to join the CLC Queue, find a place to work and a TA will come to you as soon as possible.

   **CLC Tutorials –** Need a little boost? Visit **chemistry.illinois.edu/clc/tutorials** to find over 30 general chemistry tutorials written specifically for Illinois undergraduates!

   Students benefit most from the CLC if:

   a. Homework problems have been honestly attempted two or three times.
   b. Detailed work is provided to help staff locate mistakes.
   c. Problems are re-worked after receiving help, to ensure you can do it independently.

2. All grades in the course will be entered into an electronic gradebook accessed from our Chem 102C/D website.

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: **Monday noon-1:30 p.m. and Wednesdays 10-11:30 a.m.** in 3016 Chem Annex or by appointment.

   **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. The first lecture is Tuesday, January 16.

2. Attempt the assigned Tuesday Week 1 text homework problems before your discussion (quiz) section on Wednesday, January 17.

3. Attend the first discussion section on Wednesday, January 17. See your schedule for time and place information. Bring questions on course policy and/or on material covered in Lecture 1 and/or from the first text assignment. Note that nothing will be collected on this Wednesday.

4. The first two online (Lon Capa) homework sets (called Homework 1 and Homework 2) are both due by 9 am Tuesday, January 30.

5. The online quiz 1 must be completed by 9 a.m. Thursday, February 1. You will have access to the quiz sometime on Tuesday, January 30. Quiz 1 covers the material from the first five assignments. Your work on the even-numbered assigned Zumdahl problems from the first five assignments will be checked in discussion (quiz) section on Wednesday, January 31. As always, answers to the assigned Review Questions are not required.

**CHEMISTRY 102C/102D**
**LON-CAPA HOMEWORK DEADLINES**

| **Homework #** | **Due Date** |
|---|---|
| 1 and 2 | 9 a.m. Tuesday, January 30 |
| 3 | 9 a.m. Tuesday, February 6 |
| 4 | 9 a.m. Tuesday, February 13 |
| 5 | 9 a.m. Tuesday, February 20 |
| 6 | 9 a.m. Tuesday, February 27 |
| 7 | 9 a.m. Tuesday, March 5 |
| 8 | 9 a.m. Tuesday, March 19 |
| 9 | 9 a.m. Tuesday, March 26 |
| 10 | 9 a.m. Tuesday, April 2 |
| 11 | 9 a.m. Tuesday, April 9 |
| 12 | 9 a.m. Tuesday, April 16 |
| 13 | 9 a.m. Tuesday, April 23 |

**CALENDAR - CHEMISTRY 102C/102D**
**Spring 2024**

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

Ex = Exams S/F = Classes start/finish in Chem 102C/D

Final Exam Dates: Chemistry 102C: 7-10 pm Thursday, May 9
Chemistry 102D: 7-10 pm Tuesday, May 7