

# Chemistry 102 Syllabus (Spring 2022)

Instructor: **Dr. Conrad Naleway** ([CNalewa@luc.edu](mailto:CNalewa@luc.edu)) (do not send g-mail, often ends up in spam folder)

Student Instructor: **Nina Sharma** [nsharma5@luc.edu](mailto:nsharma5@luc.edu)

Lectures MWF at 1:40 pm: In-Person: **Flanner Auditorium** Zoom: Meeting ID: **864 6174 4155**

Office Hours: In-person Wednesday **11:30-12:30 FH129** and Tuesdays on Zoom **495 082 9636 6-7pm**

Review Sessions: To be announced (weekends & before exam)

Text: Chemistry: The Central Science. Theodore E Brown, H Eugene H LeMay, H Eugene LeMay, Bruce E Bursten, Catherine Murphy, Patrick Woodward (**Prentice Hall**) Can be an older editions or e-text!

**Please register for MasteringChemistry as soon as possible, there is homework already assigned and exams will often use MasteringChemistry to minimize potential cheating.**

Course ID: **naleway50088** Course Name: **Chem102\_Spring2022**

INSTRUCTIONS for MC Registration: <https://mlm.pearson.com/enrollment/naleway50088>.

**Please note that the text is a secondary source of information to help clarify concepts presented in lecture. The primary information is presented in class and also appears on website and lecture handout materials.**

Basic Calculators will be needed for homework assignments and exams but should have log/trig functions (typically under \$20). Website: <http://www.conradnaleway.net/chem102.html>

<b>1. Intermolecular Forces and Solutions</b>	<b>(Chapter 11 &amp; 13).</b>
<b>2. Chemical kinetics, reaction rates, and reaction mechanisms</b>	<b>(Chapter 14).</b>
<b>3. Chemical equilibrium in gas and liquid phases</b>	<b>(Chapter 15).</b>
<b>4. Acids and bases, equilibrium in aqueous solutions</b>	<b>(Chapter 16).</b>
<b>5. Additional aspects of aqueous equilibria</b>	<b>(Chapters 17).</b>
<b>6. Chemical Thermodynamics: Entropy and Free Energy</b>	<b>(Chapter 19).</b>
<b>7. Electrochemistry and electron transfer reactions</b>	<b>(Chapter 20).</b>

**Exams: There will be TOP TWO of 3 in-class exams and one cumulative final exam ( that is, one in-class exam will be dropped) Each exam will consist of questions and problems representative of the text, lecture, and discussion material. A calculator, periodic table may be used during each exam. But NO ACCESS to on-line websites ( including our own website)**

**Each exam MUST be signed, and this signature will be taken as a statement of honest, independent work. Instances of academic dishonesty will warrant immediate failure of the course plus referral to the Arts and Sciences Dean's office. All Exams must be handed or sent directly to the instructor immediately upon completion.**

**Exams will be graded and returned as soon as possible, usually the following class period. All grading questions, points of clarification, and grading errors must be brought to the instructor's attention during office hours no later than one week after return of the exam. There will be no exceptions to this rule!**

**Assignment of Grades: The following scale will be used:**

93 - 100	A
90-92	A-
88-89	B+
79% - 87%	B
77-78	B-
75-76	C+
62% - 74%	C
60-61	C-
50% - 59%	D
< 50%	F

**Your Final Grade cannot be greater than the highest in class exam grade!!**

**Final Grade will be assigned according to the following:**

**The weighted average of the TOP -TWO Fifty-minute exams plus the cumulative FINAL**

**Here the two highest 50-minute exams will each be weighed 25% each  
Final Exam will be weighed 20%**

**Pre and Post Assignments on MasteringChemistry On-Line Homework will represent 20%**

**10% of the grade will be based upon participation and completion of in-class Group Assignments!**

An aim of the grading policy is to allow time and incentive for improvement. Chemistry is not easy to learn, but the process can be rewarding if extensive, daily effort is made to master fundamentals as they appear. Students are urged to contact the instructor to discuss problems before they become serious.

#### **Discussions:**

Groups will work through problem sets and a single collective answer sheet will be submitted for grading.

Exam Problems will be largely variants of problems done in class or problems done in discussion period! Plus there also may be a few conceptual questions on each Exam/Quiz. There will be no make-up quizzes, or exams given unless extreme and documented circumstances might occur.

**Tentative Exam Dates: 2/7, 3/4, 4/13, and Final: 5/4**

All exams must be signed in the front, upper right hand corner. This signature will be taken as a statement of honest and completely independent work. There will be no tolerance whatsoever for cheating or plagiarism. Simply, any instance of dishonesty (including those detailed on the website provided below or in this syllabus) during exams will result in a failing grade for the course.

#### **Problem Sets:**

Multiple problem sets will be assigned during the semester based on the text and lecture materials. Assignments will come from both the on-line homework site and possibly supplemented with a few additional assigned problem sets.

#### **Help/Review Sessions:**

In preparation for exams, help/review sessions will be scheduled. Dates, times, and locations will be announced in class.

#### **Schedule:**

The typical class day will begin with a review of material (5-10 minutes total) from preceding class; this will be followed by lecture on new Following lecture feel free to wait on Zoom to ask me questions

**Final Exam:**

The University sets the schedule for all final exams. The group final will be held on: Wednesday 5/4/2022

You will have exactly 2 hours to complete the exam. Additional time will not be granted, even if you start late. There will be no make-up final exams given under any circumstance, and the exam will not be given, either.

Instructors may not reschedule final exams for a class for another day and/or time during the final exam period. There can be no divergence from the posted schedule of dates for final exams. Individual students who have four (4) final examinations scheduled for the same date may request to have one of those exams rescheduled. If a student reports having four final examinations scheduled for the same date, students should be directed to e-mail a petition to Lester Manzano, Assistant Dean for Student Academic Affairs, CAS Dean's Office (lmanzan@luc.edu).

**Course Repeat Rule**

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Effective with the Fall 2017 semester, students are allowed only THREE attempts to pass Chemistry courses with a C- or better grade. The three attempts include withdrawals (W).

After the second attempt, the student must secure approval for a third attempt. Students must come to the Chemistry Department, fill out a permission to register form or print it from the Department of Chemistry & Biochemistry website: <http://www.luc.edu/chemistry/forms/> and personally meet and obtain a signature from either the Undergraduate Program Director, Assistant Chairperson, or Chairperson in Chemistry. A copy of this form is then taken to your Academic Advisor in Sullivan to secure final permission for the attempt.

**Student Accommodations**

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The Student Accessibility Center (formerly known as Services for Students with Disabilities), Sullivan Center (773-508-3700), [www.luc.edu/sswd](http://www.luc.edu/sswd), has the mission "to serve students with documented disabilities by creating and fostering an accessible learning environment," including "support[ing] faculty, staff, and administrators on matters such as ADA and Section 504 compliance, as it relates to individuals with disabilities." Please direct all questions concerning accommodations of disabilities to the Student Accessibility Center. Academic accommodations afforded to students require documentation and review. The Student Accessibility Center will issue accommodation letters for registered students to present to their instructors: accommodations are not active until students present these letters to their instructors. If students' accommodations involve attendance or deadlines, instructors and students will jointly complete and execute an Agreement Form articulating their terms. See <https://www.luc.edu/sac/faculty/facilitatingaccommodations/> for guidance about implementing various kinds of accommodations in a way that is appropriate to class. The Student Accessibility Center stands ready to work with you.

**Academic Integrity**

All students in this course are expected to have read and to abide by the demanding standard of personal honesty, drafted by the College of Arts & Sciences, which can be viewed at:

*<http://www.luc.edu/cas/advising/academicintegritystatement/>*

A basic mission of a university is to search for and to communicate the truth as it is honestly perceived. A genuine learning community cannot exist unless this demanding standard is a fundamental tenet of the intellectual life of the community. Students of Loyola University Chicago are expected to know, to respect, and to practice this standard of personal honesty.

Academic dishonesty can take several forms, including, but not limited to cheating, plagiarism, copying another student's work, and submitting false documents.

Any instance of dishonesty (including those detailed on the website provided above or in this syllabus) will be reported to The Chair of The Department of Chemistry & Biochemistry who will decide what the next steps may be. (please specify what the punishments will be for transgressions).

**Loyola University Absence Policy for Students in Co-Curricular Activities (including ROTC):**

Students missing classes while representing Loyola University Chicago in an official capacity (e.g. intercollegiate athletics, debate team, model government organization) shall be allowed by the faculty member of record to

make up any assignments and to receive notes or other written information distributed in the missed classes.

Students should discuss with faculty the potential consequences of missing lectures and the ways in which they can be remedied. Students must provide their instructors with proper documentation (develop standard form on web) describing the reason for and date of the absence.

This documentation must be signed by an appropriate faculty or staff member, and it must be provided as far in advance of the absence as possible. It is the responsibility of the student to make up any assignments. If the student misses an examination, the instructor is required to give the student the opportunity to take the examination at another time.

<https://www.luc.edu/athletheadvising/attendance.shtml>

### **Accommodations for Religious Reasons**

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If you have observances of religious holidays that will cause you to miss class or otherwise effect your performance in the class you must alert the instructor within 10 calendar days of the first class meeting of the semester to request special accommodations, which will be handled on a case by case basis.

### **Online Class Specifics:**

#### Recording of Zoom class meetings

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In this class software will be used to record live class discussions. As a student in this class, your participation in live class discussions will be recorded. These recordings will be made available only to students enrolled in the class, to assist those who cannot attend the live session or to serve as a resource for those who would like to review content that was presented. All recordings will become unavailable to students in the class when the course has concluded. Students will be required to turn on their cameras at the start of class. Students who have a need to participate via audio only must reach out to me to request audio participation only without the video camera enabled. The use of all video recordings will be in keeping with the University Privacy Statement shown below.

#### Privacy Statement

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Assuring privacy among faculty and students engaged in online and face-to-face instructional activities helps promote open and robust conversations and mitigates concerns that comments made within the context of the class will be shared beyond the classroom. As such, recordings of instructional activities occurring in online or face-to-face classes may be used solely for internal class purposes by the faculty member and students registered for the course, and only during the period in which the course is offered. Students will be informed of such recordings by a statement in the syllabus for the course in which they will be recorded. Instructors who wish to make subsequent use of recordings that include student activity may do so only with informed written consent of the students involved or if all student activity is removed from the recording. Recordings including student activity that have been initiated by the instructor may be retained by the instructor only for individual use.