



LOYOLA  
UNIVERSITY  
CHICAGO

*Preparing people to lead extraordinary lives*

## Chemistry 102 - General Chemistry B - Summer 2021

- Instructor:** Dr. David Klinger  
Office: Online via Zoom  
Email: [dklinger@luc.edu](mailto:dklinger@luc.edu)  
Phone: (773) 508 – 3432  
Office Hours: Online by appointment
- Class Lecture Times:** Asynchronous Lectures. Twice/week synchronous sessions as stated in LOCUS.
- Course Description:** This is the second semester of General Chemistry. It builds upon the study of General Chemistry A. In this course a more in-depth study is undertaken of basic chemical principles: Intermolecular forces and solution chemistry, chemical kinetics, chemical equilibrium acid and base chemistry, chemical thermodynamics, and electrochemistry.
- Expectations:** Students are expected to (1) read the relevant portion(s) of the text (2) watch lecture videos (3) do the homework and (4) take the quiz at the end of each lesson to check that they are mastering the material. As always students are expected to behave appropriately, consistent with University regulations and the rules stated in this syllabus.
- Course Prerequisites:** Prerequisite: Chemistry 101 or equivalent
- Required Course Materials:** Text: *Chemistry: The Central Science*, 14<sup>th</sup> ed., Brown LeMay et al, Pearson (2018).  
MasteringChemistry is an online resource that accompanies the textbook. To use MasteringChemistry, you will need to purchase a student access code. Once you have signed up for MasteringChemistry, you should enroll in this course, using the Course ID: **CHEM102SU2021KLINGER**.
- Calculator:** Scientific calculator that can do trigonometric, exponential, and logarithmic functions; graphing capacity not required
- Exams will occur three times during the semester. Exams dates will be 15 July, 29 July, and 12 August during our synchronous session. Exams via Zoom and Sakai.**
- Grading:** Your final grade will be based on the rubric at right. There will be EC opportunities irregularly throughout the course. **Please Note: Exams must be taken at their scheduled time, and make-up exams are not given (more below).**

Course Grade Components	
Three Exams	75%
Quizzes (mastering)	15%
Homework (mastering)	10%

**Grading Scale:**

Percentage	Grade	Percentage	Grade	Percentage	Grade
[94, 100]	A	[80, 83]	B -	[65, 68]	D +
[91, 94]	A -	[77, 80]	C +	[59, 65]	D
[88, 91]	B +	[72, 77]	C	[0, 59]	F
[83, 88]	B	[68, 72]	C -		

**Important Dates:**

7 July: Last day to withdraw without a "W" grade.

6 August: Last day to withdraw with a grade of "W." After this date the penalty grade of "WF" is assigned.

**Communication:**

Email is the best way to reach me. Technology issues should go to Loyola's Help Desk ([helpdesk@luc.edu](mailto:helpdesk@luc.edu)) or the appropriate service provider (Pearson). I can and will escalate technology issues with mastering etc., but you must first try on your own to contact Person etc., and then send me an e-mail of your unsatisfactory exchange.

**Intellectual Property:**

All lectures, videos, notes, PowerPoints and other instructional materials in this course are the intellectual property of the professor or Pearson. As a result, they may not be distributed or shared in any manner, either on paper or virtually without my written permission. Lectures may not be recorded without my written consent; when consent is given, those recordings may be used for review only and may not be distributed. Recognizing that your work, too, is your intellectual property, I will not share or distribute your work in any form without your written permission.

**Student Conduct:**

One important aspect of a Jesuit education is learning to respect the rights and opinions of others. Please respect others by (1) allowing all classmates the right to voice their opinions without fear of ridicule, and (2) not using profanity or making objectionable (gendered, ageist, religious, racial or ethnic) comments, especially comments directed at a classmate, instructor or other member of the Loyola community.

**Academic Integrity:**

Loyola University Chicago takes seriously the issues of plagiarism and academic integrity. Loyola has an academic code of conduct that students are expected to follow. Any incidence of academic dishonesty on a quiz or exam will result in a grade of "0" and will be reported to the Chairperson of the Chemistry Department for possible referral to the Dean of the College of Arts and Sciences. The Statement of Academic Integrity is available [online](#).

**Special Circumstances:**

Students are urged to contact me should they have questions concerning course materials and procedures. If you have any special circumstance that may have some impact on your course work, please let me know so we can establish a plan for assignment completion. If you require assignment accommodations, please contact me early in the semester so that arrangements can be made with [Student Accessibility Center](#) (SAC).

**Course Schedule:**

The course schedule is incorporated into Mastering. Students need to go to these sites for full-details. Roughly, the high-level course schedule is as follows:

<u>Week</u>	<u>Topic or event</u>
One	Chapters 11 and 12*
Two	Chapter 13 – Exam One
Three	Chapters 14 and 15
Four	Chapters 15 and 16 – Exam Two
Five	Chapters 17 and 19
Six	Chapters 19 and 20 – Exam Three

\*Chapter 12 coverage is limited and will be discussed during the first synchronous session.

**Assignment of Grades:** 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 necessary effort is made to master fundamentals as they appear. Students are urged to contact Dr. Klinger to discuss problems before they become serious.

**Homework:** Homework, made up of conceptual and computational problems, is the only way students can learn the material presented in the chapter and in lecture.

**Quizzes:** Quizzes will be featured on-line following completion of a chapter in the text. Successfully completing the quizzes is the only way to tell if you are indeed mastering the material.

**Aquino  
College:**

In order to promote learning across all levels in class, I have developed a supplemental discussion/problem sessions modestly called Aquino College. The problems are listed under Aquino on Sakai/resources. The video solutions will be released over time during the term. The intent of this material is to *supplement* your study of the subject, and let you look into my mind as I reason through problems, as it is my belief that this is the most constructive use of a research trained scientist in an elementary course such as Chem 102. But there is more. These sessions also provide students with a tangible opportunity to implement a kind of social justice by helping others in the class. If students are interested (and this is of course not mandatory), I will organize online study groups (or students can do it yourselves if you prefer). The point is to work together to help others and help yourselves at the same time. Why do I say this? Because explaining to others who may not grasp concepts as quickly is how strong students can solidify and deepen their understanding while helping others. As and we are at a Jesuit institution, I believe we all have a moral obligation to help others, so why not start with those proximate to us, in this Chem 102 class? We will discuss Aquino more in the first synchronous session.

**As there are no make-up exams, missing an exam means getting a grade of zero.**

**Make-Up Exams:**

There are five exceptions to this rule however, which apply only in very unusual circumstances, as per University Regulations. Missed exams may be rescheduled if the student must miss the exam day for the following reasons:

- a) Absence due to medical emergency. This exemption will be granted only under the most extraordinary circumstances. The student must be able to demonstrate beyond doubt that it was a medical emergency. The student must supply the instructor with a doctor's verification of the emergency. If a student has a medical emergency, they must see a doctor immediately or go to a hospital emergency room that day. *Colds, headaches, sore-throats, etc. do not constitute medical emergencies.*
- b) Death of a close family member, with appropriate documentation.
- c) A court appearance that cannot be rescheduled, with appropriate documentation.
- d) Absence while representing Loyola University in an official capacity, with appropriate documentation.
- e) Religious obligation requiring the student to miss class, with appropriate documentation .

If you meet one of the exceptions detailed above and can supply documentation, your other exams will be weighted more heavily. If you need to miss two exams for one or

more of the five reasons above and have supporting documentation, please let me know as soon as possible.

**Sakai Materials:**

Other exams or a heavy workload for your exam day are not valid reasons for missing your exam. Missing, stolen, or lost textbooks or class notes are not a sufficient reason to delay taking the exam at the scheduled time. Vacation travel plans or a desire to end your semester early are not valid reasons for missing an exam.

There will be multiple postings on *Sakai in the Announcements* section. Please check the website every day or two for the latest additions. Errors should be brought to the instructor's attention as soon as possible.

**Accommodations:**

Students who have disabilities which they believe entitle them to accommodations under the Americans with Disabilities Act should register with the Student Accessibility Center (SAC) office. To request accommodations, students must schedule an appointment with an SAC coordinator. Students should contact SAC at least four weeks before their first semester or term at Loyola. Returning students should schedule an appointment within the first two weeks of the semester or term. The University policy on accommodations and participation in courses is available at:

<http://www.luc.edu/sac/>

I have a personal interest in helping students who have a physical or psychological difference that impedes their ability to study and/or learn. Please do not hesitate to ask me about your options, although of course the folks in the SAC Office in Sullivan are always the best resource if you have questions. I will do whatever I can (that is appropriate) to help you navigate these waters.

**Course Repeat Rule:**

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 Department of Chemistry & Biochemistry website, and obtain a signature from 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.

**Students are encouraged to seek help with the course material early and often during the semester. Attend office hours regularly for assistance before any deficiencies become serious!**

**Peer Tutoring**

Group peer tutoring study sessions through the Tutoring Center are available for this course. Sessions are free and anonymous meaning professors do not know who is attending. While attendance is open to all, it is extremely beneficial for those who attend regularly. To view times and Zoom information, please visit the summer tutoring information [website](#). Students who attend these interactive sessions find themselves working with peers as they compare notes, demonstrate and discuss pertinent problems and concepts, and share study and test-taking strategies. Research shows students whom regularly attend sessions have higher grades and more deeply understand course concepts than those who do not. Students are asked to arrive with their Loyola ID, lecture notes, and textbook. For questions, please contact the Tutoring Center at [tutoringcenter@luc.edu](mailto:tutoringcenter@luc.edu).

**Student Support:** ITS Help Desk: 773-508-4487 [helpdesk@luc.edu](mailto:helpdesk@luc.edu)  
Library Subject Specialists: <http://libraries.luc.edu/specialists>  
Student Accessibility Center: <https://www.luc.edu/sac/>  
Writing Center: <http://www.luc.edu/writing/>  
Ethics Hotline: 855.603.6988 <http://luc.edu/sglc/aboutus/>

**Success Coaching:** With Success Coaching, students can sign up for a free one-on-one session with a coach to work on topics such as success in online learning, organization, time management, notetaking, and exam preparation in a personalized way. Students can sign up for Success Coaching on TutorTrac (easy instructions are at <https://tinyurl.com/successcoachingonline>).

**Student Accessibility Center:** The mission of the Student Accessibility Center (SAC) is to serve students with documented disabilities by creating and fostering an accessible learning environment. SAC has moved online this summer, and please visit the [SAC website](#) to learn more about how SAC can support you.

**Syllabus Statement:** In this class software may be used to record live class discussions. As a student in this class, your participation in live class discussions may 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 Sakai course is unpublished (i.e. shortly after the course ends, per the Sakai administrative schedule). Students who prefer to participate via audio only will be allowed to disable their video camera so only audio will be captured. Please discuss this option with your instructor. The use of all video recordings will be in keeping with the University Privacy Statement shown below:

**Privacy Statement:** 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.

**Zoom Recordings in this class:** In this class there will be no recordings of students by your instructor whatsoever, except during exams. Such recordings will not be shared with anyone outside of University administration, and will be deleted at the end of our course.

**Additional Required Materials** Computer and private room with reliable internet connection: As this is an online course, students will be expected to have reliable access to the course content and to participate in online discussion sessions. For this, a computer with a reliable internet connection is required. For exams, students must have internet access from a private location without background noise (i.e. not a coffee shop or other public setting). On exam days, you must be the only person in this location for the extent of the exam. You will need a desktop computer or laptop computer, not a tablet or mobile device. You also will need sufficient internet speed: at least 2 Mbps upload and download speed. Please test your internet speed. Please see below for more technical requirements.

Webcam and headset: For the exams and Zoom sessions, students will need 1) a compatible webcam and 2) either a microphone and pair of headphones or a headset that combines the two. Webcams and microphones built into laptops should be fine, but please test for compatibility.

Access to a scanner on exam days: On exam days, students will be required to enter information into the online system (Sakai) during the exam time. Following the exam time, students will have to scan their work and submit it online within 10 minutes of the end of the exam. There will be more detail in each set of exam instructions. I will issue one set of instructions the week of each exam. You can use a scanner if you have one or you can capture documents with a scanner app on your phone, and e-mail the pdf to yourself from your phone, and then upload to Sakai under Assignments.

Zoom: Please download the appropriate [software](#) and follow the [instructions](#) at to set up your software and computer prior to the first day of class. You are required to have all the required software and to test your computer for Zoom compatibility prior to the first day of class.

Synchronous Sessions: As this is an online course, all course material and course interactions will occur online. To encourage and facilitate interaction, there are synchronous sessions twice a week throughout our course. I will be going over problems from homework, quizzes, etc. in detail, with students in the class. Participation in these synchronous sessions is an essential part of this course and is highly recommended.

**Statement of Intent:** By remaining in this course, students are agreeing to accept this syllabus and to abide by the guidelines outlined in the document. Students will be informed should there be a necessary change to the syllabus.