



LOYOLA
UNIVERSITY
CHICAGO

Preparing people to lead extraordinary lives

Chem 102 005, General Chemistry II

Instructor:

David Klinger
Office: 408 Cudahy Science Hall
Email: dklinger@luc.edu
Phone: (773) 508 – 3432
Office Hours: 11 AM – 12 Noon
Tu We Th and by appointment

Class Lecture Times:

Mundelein Center 506 **Tu We Th 1:00 PM – 3:40 PM**

Course Description:

This is the second semester of General Chemistry. It builds upon the study of General Chemistry I. 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) do the pre-lecture assignments, (3) attend lecture (4) do the post-lecture homework and take the quiz at the end of each lesson to check that they are mastering the material. As always students are expected 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*, 14th 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: **CHEM102SU2018DK**.

Chem 101: is an online resource that accompanies the course. To use Chem 101, you will need to purchase a student access code. Once you have signed up for Chem 101, you should enroll in this course, using the Course ID: **ANLG3T**

Calculator: Scientific calculator that can do trigonometric, exponential, and logarithmic functions; graphing capacity not required

Exams will occur three times during the semester. Mid-term exam dates will be 12 July and 26 July from 1:00 to 2:30 PM. Final on 9 August will be 1:00 to 3:00 PM.

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	
Two mid-term Exams	40%
Cumulative Final Exam	30%
In-Class (Chem 101)	5%
Quizzes (Mastering)	10%
Pre-Lecture (Mastering)	10%
Post-Lecture (Mastering)	5%

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:

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

3 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) or the appropriate service provider (Pearson, Chem 101, etc). I can and will escalate technology issues with mastering etc, but you must first try on your own to contact Pearson etc, and then send me an e-mail of your unsatisfactory exchange.

Intellectual Property:

All lectures, notes, PowerPoints and other instructional materials in this course are the intellectual property of the professor, Pearson, or Chem 101. 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 directed comments.

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 both the Chairperson of the Chemistry Department and 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 [Services for Students with Disabilities](#) (SSWD).

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, 12*, and 13
Two	Chapter 14 – Exam One
Three	Chapters 15 and 16
Four	Chapter 17 – Exam Two
Five	Chapter 19
Six	Chapter 20 – Final Exam

*Chapter 12 coverage is limited and will be discussed during the first day of class.

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: Pre-lecture and Post-lecture homework are the only way students can (1) become sufficiently organized to make the most effective use of lecture (pre-lecture), and (2) insure that they have understood the material in a chapter by doing computational problems (post-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.

Sakai Materials: 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.

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

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 final exam will be weighted more heavily, i.e. 50% instead of 30%. 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.

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.

Accommodations: Students who have disabilities which they believe entitle them to accommodations under the Americans with Disabilities Act should register with the Services for Students with Disabilities (SSWD) office. To request accommodations, students must schedule an

appointment with an SSWD coordinator. Students should contact SSWD 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/sswd/>

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 SSWD 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 Depart 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!

Student Support:

ITS Help Desk: 773-508-4487	helpdesk@luc.edu
Library Subject Specialists:	http://libraries.luc.edu/specialists
Services for Students with Disabilities:	https://www.luc.edu/sswd/
Writing Center:	http://www.luc.edu/writing/
Ethics Hotline: 855.603.6988	http://luc.edu/sglc/aboutus/

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.