



LOYOLA UNIVERSITY CHICAGO

Department of Chemistry & Biochemistry
1068 W. Sheridan Rd.
Chicago, IL 60660
<https://www.luc.edu/chemistry/>

- Course:** **General Chemistry**
CHEM 101
Semester: Fall 2019
Lecture: Section 025 - T/Th 8:30 – 9:45 AM, Cuneo 109
Discussions: Section 026 – M 9:20 – 10:10 AM, FH 105
Section 027 – M 10:25 – 11:15 AM FH 105
Section 028 – M 11:30-12:20 PM Dumbach 230
***you must attend your assigned discussion section due to seating limitations*
- Professor:** **Dr. Caitlin G. Decker, PhD**
Office: FH 200A
Office Hours: T/Th 10-11 AM
Email: cdecker@luc.edu
*** No specific problem-solving questions will be answered via email. All such questions should be posted to the discussion board (sakaii) so that they are visible to all students or asked during discussion section / office hours.*
- Materials:** **Textbook**
Brown, LeMay, et. al. (2018) Chemistry the Central Science, 14th edition.
Print or electronic version is fine. Mastering Chemistry material is optional (there are a lot of resources there). Earlier editions are acceptable.
ISBNs:
MyLab plus Etext: 9780134553108
MyLab plus loose-leaf: 9780134557328
MyLab plus Hardcopy: 9780134292816
- Sakaii:** All students are enrolled in the class Sakaii site. It is imperative that you check this site daily to keep informed of all activities.
- Important Dates:** Oct 25th – Midterm Grades / Academic Alerts (*prior* to this date!)
Nov 1st – drop deadline
- Exams:** **Exam 1 – Tues Sept 24th**
Exam 2 – Tues Oct 22nd
Exam 3 – Tues Nov 19th
FINAL - Saturday, Dec 14th, 9-11 AM, Cuneo 109
*Final Exam IS Cumulative
***There will be NO regrades for this course on any exam. Grades are final. You must show your ID to the instructor and sign-in next to your name for each exam. All electronic devices must be turned off and inside bags.*

Course Description: Lecture and discussion. Basic chemical principles. Topics include atomic and molecular structures, states of matter, energetics and stoichiometry of reactions. For non-chemistry majors and students in the B.A. Chemistry program.

Prerequisite: Math 117 (C- or better) or passing the Loyola math proficiency exam
Co-requisite: CHEM 111

Grading Scale:

93-100% = A	90-92% = A-	
87-89% = B+	83-86% = B	80-82% = B-
77-79% = C+	73-76% = C	70-72% = C-
60-69% = D		
Below 60% = F		

***the professor reserves the right to implement a curve, as necessary*

Grade: Grades will be determined using one of the two methods below (whichever results in a *higher* overall grade):

- 1) All three midterms + final are averaged. Thus, each exam will weigh 1/4.
- 2) The top two mid-term exams weigh 1/4 each, and the final will weigh 1/2.

This equates to the final exam score replacing the lowest midterm score.

***due to this policy there will be NO make-up exams. If you miss an exam, it will count as the "dropped" exam, and method #2 will be used to calculate the grade.*

To calculate what you need on the Final:

Ex 1) Student X wants to calculate the grade needed on the final exam in order to gain an overall score of 70% or a C- in the class. Student X has received the following scores thus far:

Exam 1: 56%

Exam 2: 70%

Exam 3: 42%

Method 1:

$$(56+70+42+N)/4 = 70$$

multiply by 4 on each side to give:

$$56+70+42+N=280$$

Subtract the 3 known scores to give

$$N=112\%$$

Method 2:

$$(56+70+2N)/4=70$$

Multiply by 4 on each side to give:

$$56+70+2N=280$$

Subtract the 2 known scores to give

$$2N=154$$

Divide by 2 on each side

$$N=77\%$$

Therefore, Student X needs to earn a score of 77% on the final exam in order to pass the class with an overall grade of 70% or C-

Course Content:

Ch 1. Matter, Energy, and Measurement.
Ch 2. Atoms, Molecules, and Ions
Ch 3. Chemical Reactions and Reaction Stoichiometry
Ch 4. Reactions in Aqueous Solution
Ch 5. Thermochemistry
Ch 6. Electronic structure of atoms
Ch 7. Periodic Properties of the Elements
Ch 8. Basic Concepts of Chemical Bonding
Ch 9. Molecular Geometry and Bonding Theories
Ch 10. Gases
Ch 24. Organic & Biological Chem. (*Selected Topics*)

Institutional Policies:

Loyola Official Academic Calendar: www.luc.edu/academics/schedules

Incomplete Grade:

If the Final Exam is missed for extenuating circumstances (incapacitating illness, immediate family member death, fire/flood or related emergency) students must fill-out an “Incomplete Grade Form”. Be aware that the option to apply for an incomplete grade is at the discretion of the professor. Incomplete grade info: <https://www.luc.edu/regrec/faculty.shtml>

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: <http://www.luc.edu/chemistry/forms/> 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!

Accommodation Requests:

Additional time on exams, a quiet space for exams, a note-taker, or permission to record lectures can be requested for qualifying students. It is the responsibility of the student to register with SAC and to provide documentation to the professor prior to the initiation of such accommodations.

Student Accessibility Center: <https://www.luc.edu/sac/registerwithsac/>

Tentative Course Schedule/Outline:

The instructor reserves the right to adjust the schedule and assignments as circumstances may warrant during the semester.

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1	<i>Aug 26th</i>	<i>Aug 27th</i>	<i>Aug 28th</i>	<i>Aug 29th</i>	<i>Aug 30th</i>
		Syllabus / Ch. 1		Ch. 1	
2	<i>Sept 2nd</i>	<i>Sept 3rd</i>	<i>Sept 4th</i>	<i>Sept 5th</i>	<i>Sept 6th</i>
	LABOR DAY	Ch. 2		Ch. 3	
3	<i>Sept 9th</i>	<i>Sept 10th</i>	<i>Sept 11th</i>	<i>Sept 12th</i>	<i>Sept 13th</i>
		Ch. 3		Ch. 4	
4	<i>Sept 16th</i>	<i>Sept 17th</i>	<i>Sept 18th</i>	<i>Sept 19th</i>	<i>Sept 20th</i>
		Ch. 4		Review / Catch-up	
5	<i>Sept 23rd</i>	<i>Sept 24th</i>	<i>Sept 25th</i>	<i>Sept 26th</i>	<i>Sept 27th</i>
		EXAM 1		Ch. 5	
6	<i>Sept 30th</i>	<i>Oct 1st</i>	<i>Oct 2nd</i>	<i>Oct 3rd</i>	<i>Oct 4th</i>
		Ch. 5		Ch. 6	
7	<i>Oct 7th</i>	<i>Oct 8th</i>	<i>Oct 9th</i>	<i>Oct 10th</i>	<i>Oct 11th</i>
	FALL BREAK			Ch. 6	
8	<i>Oct 14th</i>	<i>Oct 15th</i>	<i>Oct 16th</i>	<i>Oct 17th</i>	<i>Oct 18th</i>
		Ch. 7		Review / Catch-up	
9	<i>Oct 21st</i>	<i>Oct 22nd</i>	<i>Oct 23rd</i>	<i>Oct 24th</i>	<i>Oct 25th</i>
		EXAM 2		Ch. 8	
10	<i>Oct 28th</i>	<i>Oct 29th</i>	<i>Oct 30th</i>	<i>Oct 31st</i>	<i>Nov 1st</i>
		Ch. 8		Ch. 9	
11	<i>Nov 4th</i>	<i>Nov 5th</i>	<i>Nov 6th</i>	<i>Nov 7th</i>	<i>Nov 8th</i>
		Ch. 9		Ch. 10	
12	<i>Nov 11th</i>	<i>Nov 12th</i>	<i>Nov 13th</i>	<i>Nov 14th</i>	<i>Nov 15th</i>
		Ch. 10		Review / Catch-up	
13	<i>Nov 18th</i>	<i>Nov 19th</i>	<i>Nov 20th</i>	<i>Nov 21st</i>	<i>Nov 22nd</i>
		EXAM 3		Ch 24	
14	<i>Nov 25th</i>	<i>Nov 26th</i>	<i>Nov 27th</i>	<i>Nov 28th</i>	<i>Nov 29th</i>
	THANKSGIVING BREAK				
15	<i>Dec 2nd</i>	<i>Dec 3rd</i>	<i>Dec 4th</i>	<i>Dec 5th</i>	<i>Dec 6th</i>
		Ch 24		Review / Catch-up	
16	<i>Dec 9th</i>	<i>Dec 10th</i>	<i>Dec 11th</i>	<i>Dec 12th</i>	<i>Dec 13th</i>
	Final Exam Week				

FINAL EXAM
Saturday Dec 14th
9-11 AM