

Syllabus for CHEM 101-018 – Fall Semester 2020

General Chemistry, 3 Credit hours; Pre-requisites MTP or MATH 117

Instructor:

Dr. Martina Schmeling, Flanner Hall 408, phone 773-508-3124,

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URL: <https://www.luc.edu/chemistry/facultystaff/schmelingmartina.shtml>

Class Materials:

Textbook:

Chemistry – The Central Science, 13th or 14th edition, Brown, LeMay, Bursten, Murphy, Woodward, Stoltzfus, Prentice Hall.

Mastering Chemistry Homework and Resources:

<https://www.pearsonmylabandmastering.com/northamerica/masteringchemistry/> Mastering

Mastering Course Name: [CHEM 101 Schmeling Fall 2020](#)

Mastering Chemistry Course ID: [schmeling80513](#)

Other Materials:

A computer or laptop with high speed internet access to attend the on-line class sessions and submit required exams, quizzes, and discussion sheets. A microphone and camera (if possible) to participate in the class.

Objectives:

The course will introduce the fundamental principles of chemistry. You will learn the language of chemistry and develop skills in scientific problem solving and critical thinking. This will serve as a foundation for further study in chemistry, other sciences and related disciplines. Topics include: matter, atoms and their structure, molecules and ions, stoichiometry and chemical reactions, composition of the periodic table and periodic properties of elements, elements of chemical bonding, and gases and their fundamental behavior.

Class Procedure:

The class will be conducted on-line and synchronously via Zoom. The zoom link can be found in Sakai under: Zoom Pro – Personal Meeting Room Tab. Class hours are Tuesday and Thursday from 8:00am to 9:15am. Classes will start promptly and will feature PowerPoint presentations and problem sets worked during the class time. All materials will be posted on Sakai after the class is concluded, typically within 24-48 hours. There will be time for questions at the end of each class period. You can use the chat or raise hand features in Zoom to pose your question(s). I will look through the questions and try to address them in the remaining time of the class. Anonymous polls might be done sporadically to assess learning progress.

Discussions (CHEM 101 – 019/020) are scheduled for Friday morning and will meet virtually

via Zoom. Please consult the Fall 2020 course schedule for your discussion meeting time. Like the lecture, discussions will also start promptly. Participation in **discussion** sections is mandatory and will make up **10%** of the final grade. Discussions sheets will be posted on Thursdays in Sakai and you will be assigned to breakout rooms in groups of five to work on the sheets during the allotted time for discussion. The worked problems will be posted by the instructor within 24-48 hours after that week's discussion. You must submit your discussion sheet via Sakai within one hour after your discussion concluded to obtain credit. Discussions are designed to facilitate learning and gain extra practice.

Besides the mandatory discussions, I highly recommend that you form virtual study groups to go over the material covered in class and prepare for the exams.

Three in class exams in addition to the final exam are scheduled for **September 22, October 20, and November 17, 2020**. All three exams will be on-line, timed, and open book. You have to submit the completed exam during the 90 minute time window provided in Sakai. The server will shut down promptly, so do not delay, but rather submit what you have to get credit. Completed exams cannot be e-mailed to the instructor. Since the exams are open book, the textbook, class notes and discussion notes are permitted as resources besides a calculator during the exam. On-line chat rooms and social media are not allowable resources during the exams and will be monitored. The student(s) who has the highest number of correct answers will receive a 100% for the exam. All other students will be graded relative to that. Students requiring special accommodations must contact me at least one week ahead of the scheduled exam to discuss their needs.

The final exam will take place on **Thursday, December 10, 2019 at 5:30PM on-line in the same way as the in-class exams**. The same rules as for the in-class exams apply also for the final exam.

Class attendance is mandatory and short **quizzes** related to the lectures will be given each week to ensure continuing participation. The quizzes will be available via Sakai for a 24 hour period and should be returned by the assigned due date and time to obtain credit. No late submissions will be accepted.

Homework problem sets for additional practice will be posted regularly in Mastering Chemistry. Those are not mandatory, but are highly recommended.

Please make sure to check with Sakai regularly for announcements and assignments. I will post all information there.

Grading:

15% of the total grade will be made up by the **average quiz grade**. Quizzes have to be completed by the assigned date and time to count towards the total quiz grade. The lowest quiz grade will be dropped.

10% of the total grade will be comprised of the **discussion**. The discussions will not be graded for correctness, but rather for completion and attendance. Only completed discussion sheets

submitted one hour after the discussion ended are eligible for the grade.

The **three in class exams** count together **60%**. The student(s) who has the highest number of correct answers will receive a 100% for the exam. All other students will be graded relative to that.

Participation in the three in-class exam is mandatory and **no make-up exams** will be given. If a student misses for any reason one in-class exam, the average of the two remaining in-class exams will be taken and accounts for 60% of the final grade.

The **final exam** counts **15%**.

The final exam is mandatory for everybody. You will have two hours to complete the final exam plus some extra time to upload the exam into Sakai. There will be no make-up final exams given under any circumstances, and the exam will not be given earlier either. If for any reason a student misses the final exam he/she must consult with Dean Patricoski (apatricoski@luc.edu).

Grading Scale in %

| | |
|---------|----|
| 100-94% | A |
| 93-88% | A- |
| 87-85% | B+ |
| 84-79% | B |
| 78-75% | B- |
| 74-71% | C+ |
| 70-64% | C |
| 63-60% | C- |
| 59-50% | D |
| <50% | F |

Office Hours:

Office hours are scheduled for **Thursday between 9:30 and 11:00 AM**. Office hours will be virtual and you should e-mail me ahead of time with your question(s). I will then set up a dedicated time slot for you during the office hours in order to avoid waiting loops for zoom. Depending on how busy the office hours are time slot length will vary.

Communication and Netiquette:

Since the course will be conducted on-line, communication is also restricted to on-line interaction. Communication can be either via the chat feature in zoom, through Sakai (Forum, Chatroom, Blogs) or by e-mail.

The best way to reach me is by e-mail (mschmel@luc.edu). You can address me as Dr. Schmeling or Dr. S. Messages which address me with me first name only, will be ignored as those do not follow the proper etiquette of higher education. Make sure you use your Loyola e-mail and write in the subject line the course number. If you do not use your Loyola e-mail, the

message might be blocked by the spam filter. I will try to get back to you within 48 hours after receiving your message.

It is important to keep in mind to be polite and respectful when communicating with each other.

Academic Integrity:

All students are expected to perform the highest level of academic integrity while taking exams and must read and abide by the demanding standard of personal honesty, drafted by the College of Arts and Sciences. This can be found at:

https://www.luc.edu/academics/catalog/undergrad/reg_academicintegrity.shtml

It is your responsibility to read this and behave correspondingly. Anything you submit that is incorporated as part of your grade in this course must represent your own work. **Any students caught cheating will, at the very minimum, receive a grade of “zero” for the item that was submitted and this grade cannot be dropped.** If the cheating occurred during a course exam the incident will be reported to the Chemistry Department Chair. Depending on the seriousness of the incident, additional sanctions may be imposed.

Student Accommodations:

Students seeking academic accommodations for a disability must contact the Student Accessibility Center (SAC) to verify the disability and to establish eligibility for accommodations. Students may call SAC in Sullivan Center - Suite 117 at 773-508-3700, email sac@luc.edu, or visit their website <https://www.luc.edu/sac/> to begin the process. Students are encouraged to contact SAC as early in the semester as possible.

Recording and Privacy Policy:

The covered course material will be posted in Sakai within 24 -48 hours after lecture/discussion. Please be aware that the posted course material is copyrighted and cannot be shared with anybody outside the course without written permission by the instructor.

Please note that only the lecture presentation by the faculty, not the question and answer part involving students will be recorded. Discussions will not be recorded, but the answers for the problem sets will be posted on Sakai.

The lecture presentation recordings will be made available only to students enrolled in the class, in order to assist those who cannot attend the live session and/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](#)).

The use of all video recordings will be in keeping with the University Privacy Statement shown below:

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. <https://www.luc.edu/ool/onlinecourseguidelines/guidelinesforrecordingstudentsduringonlineclasses/>

Students with Co-Curricular Activities:

Students missing classes while representing Loyola University Chicago in an official capacity (e.g. intercollegiate athletics, debate team, model government organization) are allowed to make up any assignments. Students have to provide proper documentation describing the reason for and the date(s) of the absence and this documentation has to be signed by the instructor **before the absence occurs**. The student missing a class or assignment is responsible for making up that assignment at the time negotiated with the instructor.

(<https://www.luc.edu/athleteadvising/attendance.shtml>). Please be proactive and contact me as early as possible and send a reminder e-mail a couple of days before the absence.

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 the Department of Chemistry and 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 the Academic Advisor of the student in Sullivan to secure final permission for the attempt.

Accommodations for Religious Reasons:

Students who observe religious holidays, which will cause missing class or otherwise effect performance in the class must alert the instructor within 10 calendar days of the first class meeting of the semester to request special accommodations, which will be handled by a cases by case basis.