



# LOYOLA

## UNIVERSITY CHICAGO

*Preparing people to lead extraordinary lives*

**CHEM 102 - 003**  
**GENERAL CHEMISTRY B Lec/Disc**  
**SUMMER SESSION II\_2016**  
**Loyola University Chicago**

**Instructor:** Dr. Angela Mahaffey

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**Office Hours:** Tuesdays 3:30pm-5:15pm; and always by appointment.

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**Class Meeting Location and Times:**

Mundelein Center Rm 408; Tues/Thurs/Fri 1030am – 110pm (July 5<sup>th</sup> – Aug. 12<sup>th</sup>)

**Prerequisites:**

101 and 111, or 105 and completion of Math 118 or higher with a grade of C- or better

**Co-requisite:** CHEM 112 Lab

**Course Description:**

This lecture and discussion course is a continuation of 101 and includes topics on equilibrium systems, chemical thermodynamics, electrochemistry, and descriptive chemistry.

**Required Textbook and Online Source:**

- (1) Brown, LeMay, Bursten, Murphy, Woodward, Stoltzfus (2015). *Chemistry: The Central Science (with MasteringChemistry)*, 13th ed. Pearson Prentice Hall. ISBN 978-0-321-91041-7.
- (2) [www.masteringchemistry.com](http://www.masteringchemistry.com) \*Mastering Chemistry Website will be used for Homework assignments and Exams. Course ID: **MCMAHAFFEY65109**
- (3) CHEM 102: General Chemistry B (Summer) Discussion Sheets to be provided in class.

**Attendance, Discussion Participation and Exam Policy:**

Lecture/Discussion attendance is Mandatory for this General Chemistry B course. Participation in Discussion and completion of Discussion worksheets is also a requirement. No Discussion worksheets will be assigned on “Exam Days”. Exams will cover previously detailed lecture materials. **Calculators are allowed. NO cellphone/laptop (or other electronics) use during Exams. Each student must complete his/her own Discussion Sheet and Exam. Violation of either results in automatic loss of ALL possible Discussion E.C. points and Exam points.**

**Academic Honesty (“Integrity”):**

*Plagiarism on the part of a student in academic work or dishonest examination behavior will result minimally in the instructor assigning the grade of "F" for the assignment or examination.*

In addition, all instances of academic dishonesty must be reported to the chairperson of the department involved. [...] Academic cheating is another serious act that violates academic integrity. Obtaining, distributing, or communicating examination materials prior to the scheduled examination without the consent of the teacher; providing information to or obtaining information from another student during the examination; attempting to change answers after the examination has been submitted; and falsifying medical or other documents to petition for excused absences all are violations of the integrity and honesty standards of the examination process. ([http://www.luc.edu/academics/catalog/undergrad/reg\\_academicintegrity.shtml](http://www.luc.edu/academics/catalog/undergrad/reg_academicintegrity.shtml))

### Harassment/Bias Reporting

It is unacceptable and a violation of university policy to harass, discriminate against or abuse any person because of his or her race, color, national origin, gender, sexual orientation, disability, religion, age or any other characteristic protected by applicable law. Such behavior threatens to destroy the environment of tolerance and mutual respect that must prevail for this university to fulfill its educational and health care mission. For this reason, every incident of harassment, discrimination or abuse undermines the aspirations and attacks the ideals of our community. The university qualifies these incidents as incidents of bias. (<http://www.luc.edu/hr/biasreporting.shtml>)

### Services for Students with Disabilities

If you require special accommodations for testing procedures, please obtain a completed SSWD form from Services for Students with Disabilities (6339 N. Sheridan Rd., Chicago, IL 60660 · 773.508.3700 (ph) - <http://www.luc.edu/sswd/register.shtml>)

### Tutoring Services

Loyola University Chicago's Center for Tutoring and Academic Excellence Offers Tutoring Services, details can be found here: <http://luc.edu/tutoring/> \*Additionally, during the Spring and Fall Semesters LUC's ACS (American Chemical Society) chapter offers tutoring in Flanner Hall (Rm 129) Time and Dates TBD (see Chemistry Office Personnel for updates).

## Course Grade & Points Distribution

		Percentage of Points	Letter Grade
Discussion/ Attendance	+0.5pts. E.C. each (Due day of lecture – in class.) (+1.2%)	< 90%	A
MASTERING CHEMISTRY (Homework)	Best 5 of 6 (10pts each) = 50pts (10%) *All M.C. HW should be completed no later than Aug. 10 <sup>th</sup> .	88 – 90%	A-
EXAMS	3 x 100pts (60%)	87 – 85%	B+
FINAL EXAM	150pts (30%)	84 – 80%	B
TOTAL	500 pts	79 – 77%	B-
		76 – 74%	C+
		73 – 69%	C
		68 – 66%	C-
		65 – 63%	D+
		62 – 58%	D
		*57 – 55%	*D-
		54% and below	F

## Tentative Lecture/Discussion Schedule and Assignments Dates

WEEK 1	July 5,7,8	<b>Chp. 14:</b> Chemical Kinetics, <b>Chp. 15:</b> Chemical Equilibrium, <i>Discussion Sheets #1-2</i> <i>*M.C. Homework (Chp 14) available 7/5</i>
WEEK 2	July 12,14,15	<b>Chp. 15:</b> Chemical Equilibrium, <b>Chp. 16:</b> Acid-Base Equilibria, <i>D.S. #3-4</i> , <i>*M.C. Homework (Chp 15) available 7/12</i> <i>*M.C. Homework (Chp 16) available 7/15</i> <b>EXAM #1a-c [COMPLETE ALL 3 PARTS for FULL Credit] (7/15)</b>
WEEK 3	July 19,21,22	<b>Chp.17:</b> Additional Aspects of Aqueous Equilibria, <b>Chp. 18:</b> Chemistry of the Environment, <i>D.S #5-7</i> <i>*M.C. Homework (Chp 17) available 7/22</i>
WEEK 4	July 26,28,29	<b>Chp. 19:</b> Chemical Thermodynamics, <b>Chp. 20:</b> Electrochemistry, <i>D.S. #8-9</i> , <i>*M.C. Homework (Chp 19) available 7/28</i> <b>EXAM #2 (7/29)</b>
WEEK 5	August 2,4,5	<b>Chp. 22:</b> Chemistry of Nonmetals <b>Chp. 23:</b> Transition Metals and Coordination Chemistry, <i>D.S. #10-11</i> <i>*M.C. Homework (Chp 20) available 8/2</i> <b>EXAM #3 (8/5)</b>
WEEK 6	August 9,11,12	<b>Chp. 24:</b> The Chemistry of Life: Organic & Biological Chemistry <b>REVIEW, D.S. 12-13*(if possible, D.S. #13 – time permitting)</b> <b>FINAL EXAM #3 (8/12)</b>

### IDEA Objective:

At the end of the Summer Session II semester, you will receive an email with link for the electronic course evaluation noting the IDEA objectives for this course. Those IDEA objectives are noted online.

### Laptops, Notebooks/Computers, Tablets/iPads, Cell Phones and Recording Devices:

- All laptops, notebooks/computers, tablets/iPads and cellphones (or any categorically befitting electronic) must be muted prior to the beginning of class – and ONLY utilized for the purposes of CHEM 102 or making an emergency/medical related phone call.
- Absolutely NO social media usage or streaming is permitted.
- No audio or video recordings of the class lectures/discussions are allowed.
- Any violation of this policy will result in an automatic failure.

\*Helpful (Lecture) Slides will be available on Sakai (upon class request) prior to Exams.

### It is in the best interest of the student to:

- Take “good” (useful) Lecture Notes.
- Read/Review course material prior to Lecture and Exams.
- Complete Discussion worksheets in class, day of lecture – **NO EXCEPTIONS.**
- Meet during Office Hours, if more explanation of Lecture/Discussion materials is needed.
- Complete Mastering Chemistry (online) Homework Assignments.
- Review Key Equations and Terms (suggestion: create study guides using index cards).