

General Chemistry 101 – Summer 2013

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Lecture: M, W, F 12:30 to 3:20 Flanner Auditorium

Office Hours: M/W/F 3:30 – 4:30 pm and by appointment

Required Textbook: *Chemistry, the Central Science*; Brown, T.L.; H.G. LeMay; Bursten, C.J.; Murphy, C.J.; Woodward, P.M.; Prentice Hall, Inc. 12th Edition, 2012. ISBN 978-0321-69672-4. Access to Mastering Chemistry online.

Lecture slides will be posted on Sakai the day prior to the corresponding lecture.

Mastering Chemistry Schedule

Chapters	Posted	Due
1, 2, 3	May 20	May 28
4, 5, 6	May 27	June 10
7, 8, 9	June 10	June 21
10	June 19	June 24

Grading

Grading:	Percentage of Grade
Exams (3 exams)	60 %
Quizzes (3 quizzes)	10 %
Mastering Chemistry	10 %
Final Exam	20 %

If the FINAL EXAM grade is greater than all three exam grades the lowest exam grade will be replaced with the Final Exam grade. End-of -chapter problems are recommended but will not be submitted for grading. It is in the student's best interest to attempt as many end-of–chapter problems as possible.

Examinations

There will be a total of three one-hour exams given during the semester and a cumulative final exam. All students are to take the exams on the dates assigned. Make-up exams are given to students who **contact the instructor before the scheduled exam time**.

Grading Scale: Listed below is the grading scale that will be used to determine letter grades.

A 100-86; **B** 85-74; **C** 73-62; **D** 61-50; **F** < 50

Academic Honesty

Loyola University's Academic Integrity Statement can be found at:

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

Academic dishonesty will not be tolerated in this class. Academic dishonesty during an exam may result in failure of the exam. The incident will be reported to Chemistry Department Chair and the Office of the Dean. Additional consequences may include failure of the course and expulsion from the university.

Academic dishonesty in this class during an exam includes and is not limited to the following: sharing materials with another student, referring to textbook or notes, looking at another student's exam, using electronic devices such as cell phones and talking during the exam.

All exams will be closed book and closed notes. The only allowable personal items during the exam are a # 2 pencil and a graphing calculator. Student ID will be required in order to take the exam. Purses, back packs, and book bags must be out of sight.

Graphing and scientific calculators may be used during quizzes or exams. However they cannot be shared between students during exams and their covers or cases must be removed.

Any exam turned in after time is called will receive an automatic 10 point deduction from the exam. It is not fair to the other students who have turned in their exam on time.

Services for Students with Disabilities (SSWD) Policy

Accommodations will be made for students with disabilities. Self-disclosure, proper documentation and registration with Services for Students with Disabilities (SSWD) is necessary to receive appropriate accommodations. Please visit the sites below for more information and for registration:

<http://www.luc.edu/sswd/contact.shtml>

<http://www.luc.edu/sswd/register.shtml>

<http://www.luc.edu/sswd/accommodations.shtml>:

Cell Phone Use Out of respect to the instructor and to fellow students please silence your cell phones during lecture. Cell phones or other personal electronic devices **will not be permitted** and **must not be physically** present during quizzes or exams.

Lecture, Exam and Quiz Schedule: (Schedule subject to change.)

Week	Date	Lecture	Exams or Quizzes
1	20-May	Chapter 1. Intro: Matter and Measurement	
	22-May	Chapter 2. Atoms, Molecules & Ions	
	24-May	Chapter 3. Stoichiometry: Calculations with Chemical Formulas and Equations	Quiz 1: Nomenclature, Measurements, Dimensional Analysis
2	27-May	Memorial Day--No classes	
	29-May	Chapter 4. Reactions in Aqueous Solutions	Exam 1: (Chapters 1-3)
	31-May	Chapter 4. (continued)	
3	3-Jun	Chapter 5. Thermochemistry	
	5-Jun	Chapter 5(cont.) & Chapter 6. Electronic Structure of the Atom	Quiz 2: Thermochemistry
	7-Jun	Chapter 6 (cont.)	
4	10-Jun	Chapter 7. Periodic Properties of Elements	Exam 2: (Chapters 4-6) Rxns in Aqueous Solution, Thermochemistry & Electronic Structure
	12-Jun	Chapter 7 (cont.) Chapter 8. Chemical Bonding	
	14-Jun	Chapter 8 (cont.)	
5	17-Jun	Chapter 9. Molecular Geometry and Bonding Theories	Quiz 3: Molecular Geometry and Lewis Structures; Take-home quiz; Due Friday, June 21
	19-Jun	Chapter 9 (cont.) Chapter 10. Gases	
	21-Jun	Chapter 10 (cont.)	Exam 3: (Chapters 7- 9)
6	24-Jun	Chapter 11. Liquid and Intermolecular Forces	
	26-Jun	Chapter 11 (cont.)	
	28-Jun		FINAL EXAM (cumulative)

Suggested End-of-Chapter Problems:

Chapter 1:

1, 2, 5, 6, 11, 17, 25, 27, 29, 31, 35, 39, 43, 45, 51, 53, 55, 59, 65, 71, 74, 77

Chapter 2:

1, 4, 5, 6, 9, 11, 15, 17, 23, 25, 27, 31, 33, 35, 37, 39, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 82, 87, 29, 98, 101, 104

Chapter 3:

1, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 55, 57, 61, 63, 65, 67, 69, 73, 77, 79, 81, 83, 85, 86, 89, 93, 97, 101, 105, 107, 109

Chapter 4:

7, 11, 15, 19, 21, 25, 35, 41, 43, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 92, 94, 96

Chapter 5:

1, 5, 8, 11, 15, 25, 27, 29, 37, 39, 41, 45, 47, 51, 53, 55, 57, 59, 61, 63, 65, 71, 73, 75, 77, 79, 87, 89, 91, 93, 97, 102, 106

Chapter 6:

2, 8, 11, 15, 17, 19, 23, 25, 27, 29, 31, 35, 39, 41, 43, 47, 49, 53, 57, 65, 67, 78, 82, 85, 90, 92

Chapter 7:

13, 15, 19, 21, 29, 33, 35, 39, 43, 45, 47, 53, 61, 69, 71, 73, 81, 85, 88, 103, 106, 108

Chapter 8:

11, 13, 17, 19, 33, 35, 39, 51, 55, 57, 63, 69, 71, 107

Chapter 9:

1, 3, 5, 6, 13, 15, 17, 19, 21, 23, 27, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 55, 57, 61, 65, 69, 71, 73, 75, 77, 79, 81, 92, 94, 99, 104, 110, 112

Chapter 10:

4, 7, 13, 17, 21, 23, 27, 39, 41, 43, 49, 51, 53, 57, 59, 63, 65, 67, 69, 71, 73, 75, 77, 79, 82, 83, 85, 89, 95, 97, 99, 108, 115, 123, 128

Chapter 11:

7, 9, 11, 17, 19, 21, 23, 29, 31, 37, 39, 43, 45, 51, 55, 59, 61, 67, 73, 77, 90