

General CHEMISTRY,104, Spring 2021

Professor Lou Massa

Synchronous (& Asynchronous) Class Meetings: Sat 10:10am -1:00 pm

Recitation : Teaching Assistant Nayab Shahid, Sat 9:10 am- 10:00am & 1:10 pm –2:00 pm

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Tutor for the class: Bandy Chen

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Textbook : **Chemistry**, by Zumdahl 10e,

Student Solutions Manual: to text

Homework: assigned from the text.

Syllabus General Chemistry 104, Spring 2021

Contents of this syllabus are subject to change as events may require.

1	Sat 1/30	Ch 13 – Chemical Equilibrium
2	Sat 2/6	Ch 13 – Chemical Equilibrium
3	Sat 2/13	Chs 14, 15 –Acids, bases, PH, buffers, titration
4	Sat 2/ 20	Workshop 1/ 10:00 am, Exam 1/ 11:00am
5	Sat 2/27	Chs 6 & 17 First and Second laws
6	Sat 3/6	Ch 17 Second law,
7	Sat 3/13	Ch 17 Second law, spontaneity, entropy, free energy
8	Sat 3/20	Workshop 2/ 10:00 am, Exam 2/ 11:00am
9	Sat 3/27	Spring Break No Class
10	Sat 4/3	Spring Break No Class
11	Sat 4/10	Chp 18 Oxidation/Reduction reactions, batteries, electrochemistry
12	Sat 4/17	Ch 12 Chemical kinetics,
13	Sat 4/24	Ch 12 Chemical kinetics
14	Sat 5/1	Ch 19 Nuclear Chemistry
15	Sat 5/8	Workshop 3/ 10:00 am, Exam 3/ 11:00am
16	Sat 5/15	Final Exam 10:00 am

Course Notes:

- E-Recitation: Focused on homework problems from *your textbook and solution manual*.
- **Homework problems.** Homework is not graded, but these problems help prepare you for the exams.
- **In-class Workshops:** Problem interrogations related to class lecture topics. THREE workshops will be done in class.
- **Exams in class (50%):** There will be **Three** in-class, exams (*dates are listed on syllabus*). The exams will be related to homework, workshop, and class lecture topics. There will be 3 exams, all together counting for 50% of your course grade.
- **Final exam (50%), 5/15/2021 10:00 am– 12:00 pm .** Final exam will cover the whole syllabus of the course, counting for 50% of your course grade.

Goals of the full-year General Chemistry course: **After taking both Chem 102 and 104 you will begin to appreciate the five key questions of chemistry:**

- 1) What happens?
- 2) How much?
- 3) How far?
- 4) How fast?
- 5) Why?

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