

Kingsborough Community College,
The City University of New York
Department of Physical Sciences
CHM100 - Preview of General Chemistry
Syllabus

CHM 100 – PREVIEW of GENERAL CHEMISTRY (0 crs. 2 hrs. – 2 equated credits)

Lecture and workshop introduces chemical nomenclature symbolism, structure of atoms and molecules, isotopes and atomic weight, simple chemical reactions and balancing chemical equations. Mathematics necessary for chemistry included. Critical reading of chemistry texts. Students receive intensive help with weak areas. Pre/Co-requisite: MAT 900 required of all students who wish to enroll in CHM1100 and do not meet the pre-requisites.

Section: SECTION NUMBER

Time: LECTURE SCHEDULE FOR SECTION

Room: ROOM (S) FOR SECTION

Instructor: INSTRUCTOR FOR SECTION

Email: EMAIL ADDRESS FOR INSTRUCTOR FOR SECTION

Office Hours: OFFICE HOURS FOR INSTRUCTOR FOR SECTION

Source materials: The textbook is General Chemistry, 3rd edition, By Julia Burdge. ISBN:1259166163 / 9781259166167, Student must have pencil and paper to take notes in class. Student must have a scientific calculator (your cell phone calculator is not allowed).

Student Learning Outcomes Students will:

- Understand the scientific method and how it applies to chemistry.
- Learn the metric system and applications of scientific notation and significant figures.
- Understand the atomic theory, the current model of an atom, atomic number, mass number and isotopes.
- Learn how to use a periodic table.
- Understand atoms are the building blocks of compounds.
- Learn basic nomenclature.
- Learn the writing molecular formulas and empirical formulas.
- Learn uses of the unit in stoichiometry: molecular and formula masses calculations, and conversions between grams, moles and numbers of particles.
- Learn how to balance chemical equations to solve stoichiometry problems.

Topical Outline: (Approximate and subject to change upon notification)

Lecture

Week	Topics	Book Chapter
1 & 2	The scientific method, the metric system, and measurements and significant numbers.	1
3 & 4	Atoms, Molecules, Ions and Basic Nomenclature	2
5 - 7	Stoichiometry	3
8	Review & Practice Problems	1, 2 & 3
9	Exam	1, 2 & 3
10-12	Practice Problems	1, 2 & 3
13	Final Exam	1, 2 & 3

Grading Evaluation: This course is graded on a Pass/Repeat basis. To pass this course you must receive a score of 70% or better on the final exam.

Attendance: Attending all classes is mandatory.

Conduct: Students are required to follow *The Student Code of Conduct* as stated in the *Student Handbook*.

Accessibility: Access-Ability Services (AAS) serves as a liaison and resource to the KCC community regarding disability issues, promotes equal access to all KCC programs and activities, and makes every reasonable effort to provide appropriate accommodations and assistance to students with disabilities. Your instructor will make the accommodations you need once you provide documentation from the Access-Ability office (D205). Please contact AAS for assistance.