

This syllabus is provided as a general informational guide. Some of the information may vary depending on the specific course section and instructor. Different sections of the same course may require different textbooks. Verify the section specific textbook information in the CUNY's Academic Course Schedule Web Page. Modifications of the grading system presented here will be communicated by the instructors of the sections when they meet the class.

BOROUGH OF MANHATTAN COMMUNITY COLLEGE

The City University of New York

Department of Science

Title of Course: Concepts In Chemistry

Class Hours: 3

Course Code: CHE 108

Semester:

Instructor Information (Phone#, Office#, email)

Credits: 3

Course Description:

This is a one-semester course designed especially for liberal arts, business and other non-science oriented majors. Topics to be discussed include modern atomic theory and an introduction to the molecular basis of matter through the study of chemical principles and reactions and the relationship of this submicroscopic world to the daily life of students. **Chemistry 108 is for Liberal Arts, Business and other Non-Science Oriented Majors only. Science Majors, Nursing Majors and Health Technology Majors should not take this course. If you are in the wrong Chemistry class check with the Science Department, Room N-699, for further-information.**

Basic Skills: MATH 051, ENG 088, ACR 094

Prerequisites: none

Corequisites: CHE 109 (laboratory course that accompanies CHE 108). Students are required to take both CHE 108 and CHE 109.

Course Student Learning Outcomes	Measurements (means of assessment for student learning outcomes listed in first column)
1. Students will learn concepts and principles of chemistry.	1. Examinations and homework assignments
2. Students will learn about the relevance of chemistry to the real world and their daily lives.	2. Examinations and homework assignments.
3. Students will be able to use chemical knowledge and critical thinking ability to better assess the risks and benefits in choices that they, as informed citizens, will be making.	3. Examinations and homework assignments.

Below are the college's general education learning outcomes, the outcomes that are checked in the left-hand column indicate goals that will be covered and assessed in this course. (Check at least one.)

<input type="checkbox"/>	General Education Learning Outcomes	Measurements (means of assessment for general education goals listed in first column)
<input checked="" type="checkbox"/>	Communication Skills- Students will be able to write, read, listen and speak critically and effectively.	Students will answer occasional insightful questions during lecture and submit written responses to textbook homework assignments.
<input checked="" type="checkbox"/>	Quantitative Reasoning- Students will be able to use quantitative skills and the concepts and methods of mathematics to solve problems.	Students will solve problems requiring basic arithmetic and simple algebraic manipulation.

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x	Scientific Reasoning- Students will be able to apply the concepts and methods of the natural sciences.	Examinations and homework assignments.
□	Social and Behavioral Sciences- Students will be able to apply the concepts and methods of the social sciences.	
□	Arts & Humanities- Students will be able to develop knowledge and understanding of the arts and literature through critiques of works of art, music theater or literature.	
□	Information & Technology Literacy- Students will be able to collect, evaluate and interpret	
□	Values- Students will be able to make informed choices based on an understanding of personal values, human diversity, multicultural awareness and social responsibility	

Required Text- Chemistry for Changing Times, *15th Edition*; John W. Hill, McCreary and Doris Kolb Pearson
Prentice Hall
eBook Access Card ISBN: 9780135797952
Book ISBN: 9780134878102

Other Resources

Use of Technology (If Applicable)

Evaluation and Requirements of Students

- 1) A minimum of three non-cumulative unit exams of one hour each: 60%
- 2) A cumulative final exam of two hours: 25%
- 3) Homework: 15%

BMCC is committed to the health and well-being of all students. It is common for everyone to seek assistance at some point in their life, and there are free and confidential services on campus that can help.

Single Stop www.bmcc.cuny.edu/singlestop, room S230, 212-220-8195. If you are having problems with food or housing insecurity, finances, health insurance or anything else that might get in the way of your studies at BMCC, come by the Single Stop Office for advice and assistance. Assistance is also available through the Office of Student Affairs, S350, 212-220- 8130.

Counseling Center www.bmcc.cuny.edu/counseling, room S343, 212-220-8140. Counselors assist students in addressing psychological and adjustment issues (i.e., depression, anxiety, and relationships) and can help with stress, time management and more. Counselors are available for walk-in visits.

Office of Compliance and Diversity www.bmcc.cuny.edu/aac, room S701, 212-220-1236. BMCC is committed to promoting a diverse and inclusive learning environment free of unlawful discrimination/harassment, including sexual harassment, where all students are treated fairly. For information about BMCC's policies and resources, or to request additional assistance in this area, please visit or call the office, or email olevy@bmcc.cuny.edu, or twade@bmcc.cuny.edu. If you need immediate assistance, please contact BMCC Public safety at 212-220-8080.

Office of Accessibility www.bmcc.cuny.edu/accessibility, room N360 (accessible entrance: 77 Harrison Street), 212-220-8180. This office collaborates with students who have documented disabilities, to coordinate support services, reasonable accommodations, and programs that enable equal access to education and college life. To request an accommodation due to a documented disability, please visit or call the office.

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BMCC Policy on Plagiarism and Academic Integrity Statement

Plagiarism is the presentation of someone else's ideas, words or artistic, scientific, or technical work as one's own creation. Using the idea or work of another is permissible only when the original author is identified. Paraphrasing and summarizing, as well as direct quotations, require citations to the original source. Plagiarism may be intentional or unintentional. Lack of dishonest intent does not necessarily absolve a student of responsibility for plagiarism. Students who are unsure how and when to provide documentation are advised to consult with their instructors. The library has guides designed to help students to appropriately identify a cited work. The full policy can be found on BMCC's Web site, www.bmcc.cuny.edu. For further information on integrity and behavior, please consult the college bulletin (also available online).

OUTLINES TOPICS -LECTURE

WEEK	CHAPTER/TOPIC
1	Ch. 1 Chemistry
2	Ch. 1 Measurement of Matter
3	Ch. 2 Atoms
4	Ch. 3 Atomic Structure (Omit Electron Configuration)
5	Ch. 4 Chemical Bonds
6	Ch. 5 Chemical Accounting
7	Ch. 5 Solutions
8	Ch. 6 Gases, Liquids and Solids and Intermolecular Forces
9	Ch. 7 Acids and Bases
10	Ch. 8 Oxidation and Reduction
11	Ch. 9 Organic Chemistry, Aliphatic Hydrocarbons
12	Ch. 9. Aromatic & Chlorinated Hydrocarbons and Functional Groups
13	Ch. 11 Nuclear Chemistry
14	Ch. 15 Energy (Math Optional) Ch. 16 Biochemistry (No Structures)
15	Ch. 17 Food