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
City University of New York
Department of Science

Title of Course: Concepts In Chemistry **Class hours: 3**
Course Code: CHE 108 **Credits: 3**
Semester: Spring 2017

Instructor Information

Name:

Telephone:

Office:

Email:

Course Description
This is a one-semester course designed specially 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/Co-requisites 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.

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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.)

□	**General Education Learning Outcomes**	**Measurements (means of assessment for general education goals listed in first column)**
x	**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.
x	**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.
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, *14th Edition*; John W. Hill, McCreary and Doris Kolb Pearson Prentice Hall

In the BMCC bookstore, there is a discounted package for CHE108/109 that contains a loose-leaf copy of the textbook and a custom lab manual (ISBN-13: 9781323393086)

Other Resources- A scientific calculator.

Use of Technology (if applicable)- Blackboard may be used at the instructor's discretion.

Evaluation & 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%

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College Attendance Policy

At BMCC, the maximum number of absences is limited to one more hour than the number of hours a class meets in one week. For example, you may be enrolled in a three-hour class. In that class, you would be allowed 4 hours of absence (not 4 days). In the case of excessive absences, the instructor has the option to lower the grade or assign an F or WU grade.

Academic Adjustments for Students with Disabilities

Students with disabilities who require reasonable accommodations or academic adjustments for this course must contact the Office of Services for Students with Disabilities. BMCC is committed to providing equal access to all programs and curricula to all students.

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 side, www.bmcc.cuny.edu. For further information on integrity and behavior, please consult the college bulletin (also available online).

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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