



Exploring Chemistry Course Syllabus

Facilitator: Li Li Zyzak, PhD

Email: lzyzak@mchenry.edu

Class Meets August 19 - September 15, 2013

Course Description

Chemistry is an integral part of our lives and the world we live in. Chemistry explains the world around us. Are you a college student intimidated by a chemistry course? Do you need a head start in exploring chemistry in order to be prepared for general chemistry courses?

In this four-week non-credit pre-college online course, students will be introduced to the fundamentals of Chemistry. Concepts, terminologies and basic mathematics skills required for conversions in Chemistry will be covered. In addition, students will explore career opportunities in the area of Chemistry. This basic Chemistry course is recommended for McHenry County College's students prior to enrolling in CHM164: Introductory Chemistry.

Prerequisites

None

Learning Outcomes

Upon completion of this course, the learner should be able to:

1. Define the study of Chemistry
2. Discuss the importance of Chemistry and its role in all aspects of life
3. Describe essential safety rules and processes in a Chemistry laboratory
4. Explain basic chemistry concepts and terminologies
5. Explore the periodic table, its elements, periods and groups
6. Perform basic conversions using mathematics skills
7. Identify the main chemistry disciplines
8. Explore career opportunities in chemistry and related fields

Expectations of the Student

- **Time Commitment:** Students are expected to spend at least 3 hours per week on this course to complete all activities.
- **Technical Requirements:** Students should have access to a computer with Internet access

Grading

The quizzes in this course will be auto-graded and you can retake the quizzes to improve your score. Discussions in this course will be optional and will not be graded. However, students will receive periodic feedback from the instructor. To successfully complete this course and receive a Certificate of Completion, a student needs to score at least 80% on the quizzes.

Suggested Reading (Not required for this course)

No textbook is required

Course Outline and Due Dates

Title	Topics	Due Date
1. The Study of Chemistry	Scientific Method, Math, Measurement and Real-World Problems and Applications	8/25
2. At the Heart of Chemistry	Matter, Periodic Table, Elements, Atoms Number, Mass Number, Ions, Monatomic and Polyatomic Ions	9/1
3. The Beauty of Chemistry	Ionic and Molecular Compounds, Chemical Bonds and Chemical Reactions, Stoichiometry and Relationships	9/8
4. The Chemistry Job Market	Careers in Healthcare, Pharmaceutical and Food Science Industries	9/15

Canvas Network Technical Support

Need technical support with Canvas? Click on the word "**Help**" in the upper right-hand corner of your Canvas screen. From there, you will be able to search the Canvas Guides, ask a question, or suggest a feature. There is also a collection of "How to" guides found at [How to use Canvas Network](#).

Course Expectations: Students are encouraged to participate in the class discussions and provide their insights and experiences regarding topics under discussion. Derogative and negative postings are not accepted. Students who post inappropriate content or language will be blocked from the class immediately. Please be courteous to other students when responding to their postings.

The instructor will monitor all class discussions and participate in the discussion to share her insights and provide feedback to students' postings.

If you need help with the content of this course, please post your questions in the Discussion area so the instructor can respond to your questions. However, if your question is personal and you do not want to share with the entire class, feel free to use the inbox tool to send a private message to your instructor so she can get back to you within 24 to 48 hours period.