

Course Syllabus

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MARIAN UNIVERSITY
Indianapolis

CHE 100 Elements of General and Biological Chemistry 4 Credits

Spring 2019

Online Instructor:

Email: Contact via Canvas email

Required Textbook(s):

Chemistry: An Introduction to General, Organic, and Biological Chemistry, 13th edition; Karen Timberlake, Pearson Education, Inc. 2017

ISBN: 9780134421353

Additional Resources:

The Mother Teresa Hacklemeier Memorial Library at Marian University provides various databases

<http://www.marian.edu/library/Pages/default.aspx> (<http://www.marian.edu/library/Pages/default.aspx>)

Course Description

This course is an introduction to the principles of general chemistry, organic chemistry, and biochemistry, and is designed for students in the health science areas.

This course will explore general chemistry, organic, and biochemistry. We cover the entire text (18 chapters). Therefore we will be covering 2 to 3 chapters a week. Suggested homework assignments will be given. Plan

to spend a minimum of ten to twenty hours a week working on class material. You are encouraged to interact with your instructor with question or other content issues as is needed.

Upon successful completion of this course, students will be able to:

Student Learning Objectives

Student Learning Outcomes

- Understand and utilize the basic concepts of measurement
- Perform basic calculations in chemistry using common mathematical techniques
- Understand the basic properties of matter and energy
- Understand the structure of atoms and their organization in the periodic table
- Understand compounds and the principles of chemical bonding
- Recognize and understand basic chemical reactions
- Balance and utilize chemical equations
- Understand the basic properties of gases
- Understand the basic properties of water and solutions
- Understand acids, bases, pH, and buffers
- Understand the general principles of radioactivity
- Name, draw, and recognize 'simple' organic molecules
- Recognize and name common organic functional groups
- Recognize and understand common organic and biochemical reactions

- Understand the composition, structure, and function of carbohydrates
- Understand the composition, structure, and function of lipids
- Understand the structure and function of proteins and enzymes
- Understand the composition, structure, and function of nucleic acids
- Understand the flow of genetic information in a cell
- Understand the major pathways of metabolism and energy production

Teaching Strategies

Audios, discussion, assigned readings, web-based activities, assignments.

Assignments & Assessment Methods:

Methods of Evaluation

There are 4 Exams and a Final Exam creating a total of 5 Graded Assessments. Each Exam is worth 20% of your total grade.

Exam 1 Modules 1-4 Chapters 2-4, 6

Exam 2 Modules 5-8 Chapters 7-10

Exam 3 Modules 9-11 Chapters 5, 11-12, 14

Exam 4 Modules 12-14 Chapters 13, 15-16

Final Modules 15-16 Chapters 1-18

Grading Scale

GRADE PERCENTAGE

A	92%
A-	88%
B+	84%
B	80%
B-	77%
*C+	74%
C	70%
C-	67%
D+	64%
D	60%
F	<59%

Course Policies:

Student Handbook

Please refer to the Student Handbook for academic and school of nursing policies. The Student Handbook provides information regarding:

All Nursing students are responsible for reviewing and signing the School of Nursing Student Handbook each semester which holds you accountable for all information and addendums made throughout the semester.

NOTE: Students with disabilities who have proper documentation must contact the Director of Academic Support Services in the Learning and Counseling Center to set up a documentation review. If after the review, accommodations are deemed appropriate, an accommodation plan will be developed. As per the ADA (Americans with Disabilities Act) no accommodations can be provided until this process is complete. Contact Marj Batic, Director of Academic Support Services (mbatic@marian.edu; 317.955.6150; or stop by the office in Clare Hall).

Note: Students who may require assistance in emergency evacuations should contact the instructor as to most appropriate procedure to follow. If there are questions regarding such a procedure, contact the Dean of Student Affairs (Ruth Rodgers – rrodgers@marian.edu) or the Director of Academic Support Service for additional information.

****Any changes to this syllabi will be communicated to the student.**
















Course Outline

Schedule

Course Summary:

Date

Details

Date	Details
	 Exam 1A (https://marian.instructure.com/courses/1971391/assignments/10355628)
	 Exam 1B (https://marian.instructure.com/courses/1971391/assignments/10355656)
	 Exam 1C (https://marian.instructure.com/courses/1971391/assignments/11488462)
	 Exam 2A (https://marian.instructure.com/courses/1971391/assignments/10355568)
	 Exam 2B (https://marian.instructure.com/courses/1971391/assignments/10355630)
	 Exam 2C (https://marian.instructure.com/courses/1971391/assignments/10355581)
	 Exam 3A (https://marian.instructure.com/courses/1971391/assignments/10355634)
	 Exam 3B (https://marian.instructure.com/courses/1971391/assignments/10355629)
	 Exam 3C (https://marian.instructure.com/courses/1971391/assignments/10355572)
	 Exam 4A (https://marian.instructure.com/courses/1971391/assignments/10989908)
	 Exam 4B (https://marian.instructure.com/courses/1971391/assignments/10355588)
	 Exam 4C (https://marian.instructure.com/courses/1971391/assignments/10355577)
	 Final Exam A (https://marian.instructure.com/courses/1971391/assignments/10355596)
	 Final Exam B (https://marian.instructure.com/courses/1971391/assignments/10355613)
	 Final Exam C (https://marian.instructure.com/courses/1971391/assignments/10355647)