

FLORIDA INTERNATIONAL UNIVERSITY  
DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY  
**SURVEY OF CHEMISTRY**

**INSTRUCTOR:** Dr. Konstantinos Kavallieratos, Associate Professor  
**OFFICE:** University Park Campus, Chemistry & Physics, CP 326  
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Website: <http://www.fiu.edu/~kavallie>  
**CLASS:** Mondays and Wednesdays 3:30-5:15 pm  
**OFFICE HOURS:** Mondays and Wednesdays 2:30-3:30 pm or by appointment  
**REQUIRED TEXT:** GENERAL, ORGANIC, AND BIOLOGICAL CHEMISTRY: AN INTEGRATED APPROACH, 2<sup>nd</sup> Edition by Kenneth W. Raymond, 2006, John Wiley & Sons, Inc  
A simple calculator with a logarithm key is required for class and tests.  
**CLASS WEBSITE (REQUIRED):** <http://www.fiu.edu/~kavallie/CHM1033.htm> Please visit regularly. The class website will include required information about the class, such as daily notes, additional homework information for extra credit and practice, and news/updates for the class.  
**OTHER OPTIONAL REQUIREMENTS:** Wiley Plus access, which is included with the book at the bookstore will provide opportunities for extra credit quizzes: Visit and login as a student with the code provided with your book  
<https://edugen.wiley.com/edugen/secure/index.uni>

**BOOK'S WEBSITE:** <http://www.wiley.com/college/raymond>  
**PRE-REQUISITES:** Second Year of High School Algebra or College Algebra  
**IMPORTANT:** This course does NOT satisfy the chemistry requirements for science majors.

**PURPOSE OF THE COURSE**

This course is a special course designed for the nursing students. The course gives an overview of the foundations of inorganic chemistry including the periodic table and the general properties of the elements; organic chemistry includes naming of functional groups, their properties and reaction; and the study of biomolecules such as carbohydrates, lipids and proteins.

**COURSE OUTLINE**

Chapters will be covered in order. Outline for the semester will be as follows: Exam dates are given below and are considered FINAL: The final grade will be based on the average of three non-cumulative exams and you have to take all the exams. No make-up exams will be given

**Chapter 1: Science and Measurement**

**Chapter 2: Atoms and Elements**

**Chapter 3: Compounds**

**Chapter 4: An Introduction to Organic Chemistry**

**FIRST EXAM (Wednesday May 28th)**

**Chapter 5: Gases, Liquids, and Solids**

**Chapter 6: Reactions**

**Chapter 7: Solutions, Colloids, and Suspensions**

**Chapter 8: Lipids and Membranes**

**SECOND EXAM (Monday July 7th)**

**Chapter 9: Acids, Bases, and Equilibrium**

**Chapter 10: Carboxylic Acids, Phenols, and Amines**

**Chapter 11: Alcohols, Ethers, Aldehydes, and Ketones**

**Chapter 12: Carbohydrates**

**Chapters 13 & 14: Peptides, Proteins, and Enzymes, Nucleic Acids**

**THIRD EXAM (Wednesday August 6th)**

**CLASS BEHAVIOR:**

Class attendance is not mandatory but strongly recommended. There is a direct correlation between class attendance and class performance. If you choose to come to class, you will be expected to behave properly. Disruptions and side-conversations are not allowed. **Absolutely no cell phones, iPods, laptops, or any other listening devices will be allowed to be used during the class.**

**OUR CLASS WEBSITE:** <http://www.fiu.edu/~kavallie/CHM1033.htm>

PLEASE VISIT IT REGULARLY FOR IMPORTANT ANNOUNCEMENTS, DAILY NOTES, and LINKS TO EXTRA CREDIT AND HOMEWORK PRACTICE TESTS.

**ONLINE QUIZZES FOR EXTRA CREDIT**

There will be computer quizzes given for extra credit and practice for each chapter. Visit <https://edugen.wiley.com/edugen/secure/index.uni> and login as a student. Students must complete and submit them promptly if you would like to receive extra credit for the class. Quizzes will only be available during specific limited times. Deadlines for the chapters will be announced as we move along, but all the material related to each exam must be completed before taking the exam to get any credits. You can attempt to answer the quizzes up to a maximum of three times. Once you access a quiz, it must be answered and submitted. This is an excellent way to practice for the format and style of exams that will be given.

**EXAMS: PICTURE ID IS REQUIRED TO TAKE THE EXAMS. Graphing calculators are not allowed during the exams**

The format of the exams will be multiple-choice. There will be three (3) partial exams (100 points each) Any missing exam will translate into a zero. The final grade will be based on the average of the three non-cumulative exams and you have to take all the exams.

**NO MAKE-UPS WILL BE GIVEN FOR ANY OF THE EXAMS.**

**EMAIL:** Registered students at FIU have access to email through Computer Services. You are welcome to contact me through my regular email (kavallie@fiu.edu). Please, identify yourself with your first name and last name in all correspondence.