CHEM 1152- Survey of Chemistry II

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Students should review the following information each semester for campus rules and guidelines: https://www.westga.edu/UWGSyllabusPolicies/

Text: **Knewton- Alta: join code:** https://knerd.me/gg6xrk **,**
OpenStax: https://openstax.org/details/books/chemistry-2e

Purpose

This is the first course in a two-semester sequence covering the elementary principles of general, organic and biochemistry for allied health professions and non-science major students. This course discusses general chemistry with an emphasis on applied chemistry to health topics.

General policy

The lecture meets for 75 minutes 2 days per week, study session (workshop) meets an additional 90 minutes once a week. In addition, a weekly lab meeting is required; laboratory activities will include hands-on experiments and problem solving and will meet another 2 hours a week. Optional supplemental instruction will be available weekly with a grade incentive to attend (bonus based on the attendance and active participation record). **Lecture power-point notes and textbook chapters will NOT be printed** for the students but will be available online so students can print them before coming to class. Students should read the chapters before coming to class and complete their Knewton homework by the deadline. Everything that has been taught since the beginning of the class is supposed to be known at any point of time and the students might be quizzed at any time on it during the semester. There will be 3 examinations during the semester plus the final one, which is an American Chemical Society standardized examination. Unannounced in class quizzes and assignments will be given, the lowest grade will be dropped. Attendance will be recorded and is essential to success in the course. Students will have to perform homework online through the Knewton website, the ISBN code is: 978-1-63545-244-0. If a student misses the deadline for an online assignment, it will not be reopened. No make-up quiz or exam will be given. **If you miss an examination, the grade obtained on the final examination will replace the missing grade, if you miss two examinations, the grade obtained on the final examination will replace both/all of them…**

Learning outcomes

Students who complete this course are expected to develop:

- an understanding of the basic concepts covered in the text content,
- an awareness of the role of general chemistry in everyday life,
- a basic comprehension of some applications of chemistry to human physiology,

Study Skills: supplemental instruction: The best way to make sure that you have thoroughly understood the material covered in class is to read the text, work through the appropriate problems, complete the Knewton homework and participate in study session, on a REGULAR BASIS. Keep track of the problems that give you the most difficulty, and try similar problems for additional practice and review. Keep up with the class, ask questions frequently in study sessions and in lab.

In-Class Assignments: Attendance to the class meetings is required and will be recorded (answering the roll call for another student is considered academic misconduct and will be penalized with a zero for both students). You may earn a zero out of one hundred on the activity of the day you missed without a valid excuse (medical certificate or judicial note…) or if you are expelled for disruptive behavior.

Grading:	Workshop	15%
	Quizzes	15%
	Homework	15%
	Exams	55%

No extra credit will be offered.

Syllabus Spring 2020:

Chapter 13:	Introduction to organic chemistry and alkanes.
Chapter 14:	Alcohols, phenols, thiols and ethers.
Chapter 15:	Aldehydes, ketones and chiral molecules.
Chapter 16 :	Carboxylic acids, esters, amines and amides
Chapter 17:	Carbohydrates.
Chapter 18 :	Lipids.
Chapter 19:	Amino acids and proteins.
Chapter 20:	Nucleic acids and protein synthesis.
Chapter 21:	Metabolism

Schedule for the examinations

Examination 1: Wednesday January 29, Chapters 12 – 14.
Examination 2: Wednesday, February 26, Chapters 12 – 16.
Examination 3: Wednesday, March 25, Chapters 12 – 19.
Examination 4: Wednesday, April 20, Entire course material.
Final Examination: Monday May 4, 5:30 - 7:30 pm: ACS Exam.