SYLLABUS

CHEM-1411-51001 General Chemistry I
Honors Option

2019 Fall
Aug 26 - Dec 12

MW: A-722 Lecture; 9:30, AM – 10:50, AM
MW: A-740 Laboratory; 11:00, AM – 12:20, PM

Instructor: Dr. Jozef Borvak
Email: JXB5162@dcccd.edu
Office: A 521
Phone: 214-860-2333
Course Description
This course is for science and science-related majors.

Course Objective
This course is for science and science-related majors. Upon successful completion of this General Chemistry I course, you will be able to ask and answer important questions concerning atomic and molecular structure of matter, states of matter, chemical reactions and equilibria, stoichiometry, electronic structure, quantum numbers, electron configurations in atoms, periodic trends in the properties of atoms, ionic and covalent bonding, and properties of gases and solutions. It introduces the fundamental types of reactions in solutions such as precipitation-, acid-base-, and redox reactions. You will also become proficient in chemical measurements and calculations with chemical formulas and equations. Fundamental concepts of chemistry are presented including measurement and the metric system, the history of chemistry, the mole concept, chemical reactions and stoichiometry, energy and chemical reactions, states and properties of matter, the periodic table, chemical bonding, atomic and molecular structure, gas laws, and concentration of solutions. An understanding of organic chemistry and biochemistry depends on a sound foundation of general chemistry.

No matter what your future career plans are, your profound knowledge of general chemistry will always be a useful intellectual tool for making important decisions in both science and everyday life.

Contacting your Instructor
Place the course and section number in the subject line (Example: CHEM 1411-51001) followed by a title for your message when emailing your instructor. This will expedite instructor response and facilitate correct information. Without this information, your e-mail may not even be answered. The best way to reach the instructor is by email. Contact information (email address, telephone number, office) is available under the My Instructor button.

The instructor will reply by email within 24-48 hours, Monday through Friday. The instructor is not available on weekends or holidays. An email sent Friday afternoon may not be read until Monday afternoon.

Textbook, Laboratory Manual, and online CENGAGE UNLIMITED (OWLv2) Homework

ISBN-1111660417


Although all chemistry students should have a chemistry textbook for reference, due to the high costs associated with textbooks, students may use earlier editions of the textbook or equivalent college level chemistry textbooks, may purchase eBooks, custom-made textbooks, or, sign up for CENGAGE UNLIMITED (highly recommended, since all materials required for this course, except the Laboratory Manual and VCL, are included in Cengage Unlimited).
Materials required for this course are included in Cengage Unlimited, a subscription that provides access to ALL Cengage eBooks and digital learning products – over 22,000 in total – for only $119.99 (extended subscriptions also available). One Cengage Unlimited subscription can be used across ALL courses this semester where Cengage products are assigned. If you are taking another course this semester that is using Cengage products, you will be able to access those course materials for no additional cost. You can purchase your Cengage Unlimited subscription in the El Centro College Bookstore and at cengage.com. To check the other courses at El Centro College using Cengage this semester, check this website and also be sure to verify with your instructor for that course: https://www.cengage.com/coursepages/unlimited_el_centro

Print: You’ll be eligible for a print rental when you activate OWLv2 and subscribe to Cengage Unlimited. All you will pay is $7.99 and this includes shipping. For print you can keep, purchase a loose-leaf version of the textbook at a discount through Cengage Unlimited. Loose-leaf shipping is free when purchased with Cengage Unlimited.

Pricing: Cengage Unlimited is $119.99 for a 4-month subscription, $179.99 for a 12-month subscription or $239.99 for a 24-month subscription. Students using Financial Aid can purchase a Cengage Unlimited subscription from El Centro College bookstore.

Bonus: When your Cengage Unlimited subscription ends, you can keep up to six eBooks in a digital locker and access them for one year. (Introductory offer).

Extra Help: cengage.com/start-strong
As a reminder, you should NOT purchase BOTH individual course materials AND a Cengage Unlimited subscription. In many instances, a Cengage Unlimited subscription will be your best option.

Important! Once you order Cengage Unlimited, you need to keep the book(s) on your virtual “shelf” in order to keep the site open. That way you will be able to continue to add all your other courses. If you close it, you will have to re-order and purchase again.

Other Required Material
Scientific (non-graphing) calculator, Scantron form # 882-E

Course Prerequisites
MATH-1314 or equivalent and any one of the following: high school chemistry, Chemistry 1405 or equivalent or permission of the Instructor.

Time Commitment
Successful performance in the course will take a minimum time commitment of approximately 8-10 hours/week (five days) of your time.
Proctored Tests and Final Exam
- Each Proctored Test consists of 30 questions @ 3.33 points, ea. The questions are composed of the lecture material covered. Usually, before each test, the instructor will post a Review Exam on “Announcements” on eCampus. If you want to talk to your instructor in person, please make an appointment well in advance.
- Prepare two sharpened pencils, eraser, calculator and Scantron (Form No. 882-E, green color), for each test. You can write on the test sheets, and “The Periodic Table of Elements” and Key Equations are provided which are parts to the test sheet.

Attendance/Participation
Students are required to document attendance and participation in this course through Sign-in Sheet. Missed signatures will automatically enter an Absence, and will not be changed later.

Assignments
The course is organized into 16 weeks. Assignments can be found under each chapter. Areas found under this heading:
- Assignment - The Test Bank is usually provided. The suggestion by instructor is that students only need to work half of the problems, even numbers or odd numbers, for each chapter. That should be sufficient for a good exercise. Students don’t need to turn in their assignments but if somebody doesn’t do it he/she will get trouble in the test.
- Lab — lab exercises are connected with relevant chapters or units. Students must have a Lab Manual to conduct the experiments. I highly recommend to secure your Lab Manual through the ECC Follet Bookstore at least one week BEFORE the first lab date (see the lab schedule at the end of this Syllabus).

Instructional Strategies
Instructional strategies in this course will focus on readings, discussions, assignments lab exercises, and exams.

Grading Policy

Exam Average: (three 90-minute exams)*  50%
Final Exam (comprehensive):  20%
Lab Average (Including Lab Midterm & Lab Final Exams):  20%
Quizzes:  10%

*You will have three 90-minutes exams and the OWLv2 online homework. The homework is optional, but you may substitute your homework average for one of your lowest grade 90-min exam scores. It is strongly recommended that you do all homework assignments because there are NO MAKE-UP EXAMS and extra credits given. The homework assignments should also help prepare you for the exams and earn bonus points. A student can earn 5 bonus points on each exam, if the homework for each chapter in that unit is completed (>60% score!) by 8:00, am, on the date of that exam. Homework average can be (re)submitted until December 11th, 8:00, a.m., for the final cumulative homework grade.
Grading Scale:

- A = 90 - 100%
- B = 80 - 89.9%
- C = 70 - 79.9%
- D = 60 - 69.9%
- F = below 60%

Institutional Policies

Students’ Conduct

In all Discussion Board responses, emails, and all other correspondence among faculty and students enrolled in this class, students should feel free to express disagreement with the instructor and other students but it must be done in a manner which is not verbally abusive, threatening, or harassing (must be in compliance with FERPA, VAWA, OSHA, and Title IX requirements and regulations). Communication among students is encouraged but must end if one of the parties requests that it be terminated. Students will not send unsolicited email espousing a cause, religion, or activity to other class participants and will not add other class participants to any list serves or other entity which distributes unwanted email or material. Violation of these guidelines may result in disciplinary action against the offending student. This action can include termination of the student's participation in the class and a grade of "F".

Academic Honesty

Academic dishonesty (cheating) will not be tolerated in either lecture or laboratory sections of the course. If cheating is observed, points for that activity will be disallowed, and grades of zero given for cheating may not be dropped. Academic dishonesty includes activities such as copying lab report answers from other students and collaboration with other student(s) during Proctored Exams. It can be assumed that tests/exams showing the same or similarly missed questions as evidence of dishonesty. All tests involved can receive a score of zero. Also, students missing similar questions when taking the test at the same time will be more closely scrutinized. Instructor reserves the right to schedule separate testing times for students, if deemed necessary.

Withdrawal Policy

If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office before the last drop day. It is YOUR responsibility to withdraw from a course. Your instructor cannot initiate this procedure for you. Failure to drop by the deadline will result in your receiving your actual performance grade, usually a grade of “F”. If you drop a class before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. The last day to drop for this semester is Thursday, November 14, 2019.
Disability Accommodations
Any student who may need accommodations due to a disability should contact the Disability Services Office, Room A110 phone number (214) 860-2411.

Financial Aid Statement
Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment by the end of the semester. Students who fail to attend or participate after the drop date are also subject to this policy.

Stop Before You Drop
For students who enrolled in college-level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges.

For more information, you may access: https://www1.dcccd.edu/coursedrops

Religious Holidays Statement
A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the fifteenth day after the first day of the semester, the student notified the instructor of each class scheduled on the date that the student would be absent for a religious holy day. A “religious holyday” means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code. The notice shall be in writing and shall be delivered by the student personally to the instructor, with receipt acknowledged and dated by the instructor or by certified mail, return receipt requested, addressed to the instructor. A student who is excused under this section may not be penalized for the absence, but the instructor may appropriately respond if the student fails to satisfactorily complete the assignment or examination.

Disclaimer The provisions contained in this syllabus do not constitute a contract between the student and El Centro College. These provisions may be changed at the discretion of the Coordinator/Instructor. When necessary, appropriate notice of such changes will be given to the student.
**CHEM-1411-51001 Tentative Course & Exam Schedule 2019FA**

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<tr>
<th>Week of</th>
<th>#</th>
<th>ASSIGNMENTS</th>
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| Aug. 26   | 1 | Complete the Course Orientation. Read the course *Syllabus* and ask any questions to clarify uncertainties.  
Chapter 1: Matter and Measurements |
| Sep. 2    | 2 | Labor Day Holiday – Sept. 2 (M)  
Chapter 2: Atoms, Molecules, and Ions |
| Sep. 9    | 3 | Chapter 2: Atoms, Molecules, and Ions  
Chapter 3: Stoichiometry |
| Sep. 16   | 4 | Chapter 3: Stoichiometry |
| Sep. 23   | 5 | Chapter 4: Reactions in Aqueous Solution  
**Exam 1** Material from chapters 1-3 |
| Sep. 30   | 6 | Chapter 4: Reactions in Aqueous Solution |
| Oct. 7    | 7 | Chapter 5: Gases |
| Oct. 14   | 8 | Chapter 5: Gases |
| Oct. 21   | 9 | Chapter 6: Electronic Structure and the Periodic Table |
| Oct. 28   | 10| Chapter 6: Electronic Structure and the Periodic Table  
**Exam 2** Material from chapters 4-6  
Chapter 7: Covalent Bonding |
| Nov. 4    | 11| Chapter 7: Covalent Bonding  
Chapter 9: Liquids and Solids |
| Nov. 11   | 12| Chapter 9: Liquids and Solids  
November 14th (R) – Last Day to Withdraw  
November 15th is the due date for ASSESSMENT |
| Nov. 18   | 13| Chapter 10: Solutions |
| Nov. 25   | 14| Chapter 10: Solutions  
Thanksgiving Holiday 11/28 (R) – 12/01 (Su) |
| Dec. 2    | 15| Review for Final Exam |
| Dec. 9    | 16| **Comprehensive Final Exam (The exact date will be announced in the classroom.)**  
► Material from chapters 1-7, 9 and 10  
No late tests accepted !!!!! |

* The College & instructor of this course reserves the right to take any more flexible action and Grading Scale if it is in the students' interest, following prior notification of the students.