Honors 190
Accelerated General Chemistry (Section One)
Fall 2021

Instructor: Dr. Jason Overby
Course Time and Location: MWF 8:30-9:50 SSMB 127
Office: SSMB 318
Office Hours: MWF 10-12; others by arrangement (contact me directly, email, phone)
E-mail: overbyj@cofc.edu
Homepage: http://overbyj.people.cofc.edu/
Phone: 953-8098

*Note: all course details in this syllabus are subject to change at any point due to changing COVID-19 protocols*

Description of Course

The course covers the content of a typical one-year sequence of a general chemistry in a single semester. Topics include stoichiometry, thermodynamics, quantum chemistry introduction, structure and bonding, gas laws, kinetics, redox chemistry, and equilibrium.

Co-requisites and prerequisites

Honors 190L must be taken concurrently. Math 111 or placement into Math 120 or higher is required.

If you withdraw from the Honors 190, then you must withdraw from Honors 190L as well.

Materials

ALEKS will be the main learning tool used with the class. This is a required purchase and will be used extensively throughout the semester. There is an option to purchase an ebook within ALEKS. You may also/alternatively purchase a copy of the printed book if you like but it is not required. We will also be using a mobile/web tool called Chem101.

No printed copy of the book is required.
Everything online.
Online Materials

Please visit OAKS for up-to-date information concerning the course. There will be regular assignments in ALEKS. These will be the source for graded online assignments.

Assignments online.
Expect class things due often.
Class is digital.

Learning Outcomes

Upon completion of this course, students should be able to:

Know the definition of chemistry and the scientific method
Express common mathematical techniques in the solving of chemistry problems
Understand the role of the atom in chemistry
Distinguish, classify, and explain the properties of compounds
Recognize and explain the fundamental nature of chemical reactivity
Differentiate and describe the principles of the phases of matter
Apply common mathematical techniques to describe the kinetic and thermodynamic processes related to chemical equilibria

Honors Student Learning Outcomes

SLO 1: Demonstrate the ability to create and communicate analytic arguments supported by evidence (Introduce and Reinforce)
SLO 2: Analyze and synthesize information within and/or across disciplines (Introduce and Reinforce)

Class policies

Attendance at all class meetings is expected but not required. You are expected to budget your time wisely and meet your obligations for this class. Experience has demonstrated that there is a strong correlation between your grade in the class and your attendance. You are responsible for learning the material when you miss class. My time in office hours is not for catching you up on material you missed. In the event you miss a lecture period, please check OAKS for a synopsis of that day’s lecture.

Attendance is good.
Being present helps you learn
but not required.
If you attempt all five of the progress activities, the lowest of your five scores will count 5% while the remaining four progress activities count 15%. Thus, the four highest progress activities scores will comprise 60% of the 65% of your progress activities grades and the remaining 5% will result from the lowest progress activity score. If you know you will be missing a progress activity, appropriate accommodations can be made in many cases.

It is not my policy to allow make-up progress activities. In the event you do have to miss a progress activity, you must notify me as soon as possible so suitable accommodations can be made. If you fail to confer with me concerning a missed progress activity, you will receive a zero for that progress activity.

Grading Scale is fixed. All rules of rounding followed. Never a curve here!

Make-ups very hard. Only the excused can try. Don’t miss anything!
The ALEKS grade is comprised of two parts. One half is assigned based on your ability to finish objectives by the assigned deadlines. The other half of the grade is based on the entire course objectives completion (i.e., Is your pie filled?)

Do those objectives on time. Don’t be late with them. Also, fill your pie.

The Honor system is in effect in all your efforts for this course. Cheating will not be tolerated. If you are caught cheating, a grade of “F” will automatically be given and you will be brought before the Honor Board. By enrolling in this course, you are agreeing to abide by the Departmental policy on Scientific Integrity.

Honor system, yes! Do not cheat! You will get F! Just try me and see.

Progress Activity Schedule

There are five progress activities given over the course of the semester. The dates of these progress activities are flexible but you will always be given at least one week’s notice before any of the in-class progress activities.

All things are spread out.
You will know when they will be.
I will tell you when.

Final Course Activity Information

The final course activity is a standardized tool containing 70 multiple choice questions and was prepared by the American Chemical Society. This is a timed activity (110 minutes) which you should note is less than the normal block of time allotted by the Office of the Registrar.

Accommodations for Students with Disabilities

If there is a student in this class who has a documented disability and has been approved to receive accommodations through the Center for Disability Services/SNAP (Students Needing Access Parity), please come and discuss this with me.

Important Dates

October 28 – Last day to withdraw from classes with the grade of “W”
November 25-29 – Thanksgiving holiday
December 4 – Last day of classes
December 13 – Final course activity, 3:30 pm