Honors 190, Accelerated General Chemistry
Fall 2016

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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 191L 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. Additional content will be delivered through Connect.

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

General Education Learning Outcomes

Hons 190/190L is not yet a part of an approved natural science general education sequence. You should make sure you fulfill your general education natural science requirement either in your physics or biology course sequences. HONS 190/HONS 192 may be approved in the future and an assessment of these learning outcomes will likely take place in HONS 192 in the spring. The general education learning outcomes in the natural sciences are:

Apply physical/natural principles to analyze and solve problems
Develop an understanding of the impact that science has on society

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.

Grading Scheme
If you attempt all five of the extra credit exams, the lowest of your five extra credit exam scores will count 5% while the remaining four extra credit exams count 15%. Thus, the four highest extra credit exam scores will comprise 60% of the 65% of your extra credit exam grades and the remaining 5% will result from the lowest extra credit exam score. If you know you will be missing an exam, appropriate accommodations can be made in many cases.

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

The ALEKS grade is comprised of two parts. Half is assigned based on

Grading Policies

Grading scale is fixed.
All rules of rounding followed.
There is not a curve.

Take all five exams.
Low exam counts five percent.
One bad day ok.

Make-up exams hard.
Only the excused can try.
Don’t miss an exam!

Do those objectives the exam. Don’t be late
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., how full is 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.

Examination Schedule

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

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

Final Examination Information

The final examination is a standardized examination
containing 70 multiple choice questions and was prepared by the
American Chemical Society. This is a timed exam (110 minutes).

Important Dates

October 27 - Last day to withdraw from classes with the grade of “W”
November 7-8 - Fall Break
December 5 - Last day of classes
December 12 - Final exam, 9 am