Honors 190
Accelerated General Chemistry (Section One)
Fall 2018

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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 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. You may 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

**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**

- Progress Activities: 65%
- Final Course Activity: 20%
- ALEKS: 12%
- Chem101: 3%

**Grading Scale**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>92-100</td>
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<tr>
<td>A−</td>
<td>90-91</td>
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<tr>
<td>B+</td>
<td>88-89</td>
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<tr>
<td>B</td>
<td>82-87</td>
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<tr>
<td>B−</td>
<td>80-81</td>
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<tr>
<td>C+</td>
<td>78-79</td>
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<td>C</td>
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<tr>
<td>D</td>
<td>62-67</td>
</tr>
<tr>
<td>D−</td>
<td>60-61</td>
</tr>
<tr>
<td>F</td>
<td>below 60</td>
</tr>
</tbody>
</table>

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

**Grading Policies**

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.

Do activities, Your low score counts five percent. One bad day ok.

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.

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 all your pie filled and mastered?)

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 Registrars office.

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 24 – Last day to withdraw from classes with the grade of “W”
November 5-6 – Fall Break
December 3 – Last day of classes
December 5 – Final course activity, 12 pm