

## AP Chemistry 30/30L Syllabus - 2018-19

### Course Specifics

**Instructor:** Ms. Hilary Hayduk

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**Website:** www.haydukAPchemistry.weebly.com

**Textbooks:** Zumdahl and Zumdahl Chemistry (7<sup>th</sup> ed.) by Houghton Mifflin  
Chemistry: Matter and Change by Glencoe Science  
OpenStax Chemistry (<https://openstax.org/details/books/chemistry>)

### Course Description

This AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of university. This course is structured around the six big ideas articulated in the AP Chemistry curriculum framework provided by the College Board. A special emphasis will be placed on the seven science practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning skills. This course is intended to be rigorous and academically challenging.

Over the course of three semesters (grade 11& 12) students will work to cover the big ideas of the AP Chemistry course while integrating science practices in an authentic manner. Each course (AP Physical Science 20, AP Chemistry 30 and AP Chemistry Prep 30L) has unique content to be covered; however, the comprehensive AP Chemistry Exam *will include material from all three courses.*

### Outcomes

Big Ideas	Science Practices
1. Structure of Matter 2. Bonding and Intermolecular Forces 3. Chemical Reactions 4. Kinetics 5. Thermodynamics 6. Chemical Equilibrium	1. Drawing, explaining, and interpreting representations 2. Using mathematics and logical routines appropriately 3. Asking and refining scientific questions 4. Designing and implementing data collection strategies 5. Analyzing and evaluating data 6. Making predictions and justifying claims with evidence 7. Connecting chemistry concepts across the big ideas.

### AP Chemistry 30

Unit	Section
Atomic Structure and Periodicity	10%
Chemical Bonding and Forces	25%
Chemical Equilibrium	30%
Electrochemistry	10%
Student-Directed Study	10%
Exam	15%

### AP Chemistry Prep 30L

Unit	Section
Reaction Kinetics	20%
Aqueous Equilibria	20%
Chemical Thermodynamics	20%
Organic Chemistry	15%
Student-Directed Study	10%
Exam	15%

## Assessment

All assessments will be categorized into one of the course outcomes. This means that unit tests and the final exam will not have one overall mark, but one mark for each outcome being assessed on that evaluation. Grades will also be entered in PowerSchool by outcome.

Formative assessments will be evaluated on a proficiency rubric. Scores are shown in the table below.

Score	Abbreviation	Percentage
Advanced	A+	100%
Proficient	A	85%
Functional	B	70%
Developing	C	55%
Insufficient Evidence	IE	0%
Not Submitted	NHI	0%

An assignment will be given a grade of IE for the following reasons:

Reason	Solution
Missing significant parts of the assignment, or assignment has many major errors	Assignment must be redone and resubmitted, but will receive a late mark.
Assignment was not submitted by the late deadline	Student may choose to do an alternate assignment for that grade, but will receive a late mark.
Assignment was plagiarized (see below)	For the first offense, the assignment must be redone and resubmitted, will receive a late mark and will be given the grade of the original assignment. For subsequent infractions, the assignment will be given a mark of zero (R).

Quizzes, unit tests and the final exam will be marked using traditional point-based marking.

## Class Expectations

YOU ARE EXPECTED TO:

- Be in class every day.
- Be respectful at all times to other students, teachers, staff and yourself.
- Bring all of your supplies to every class and come dressed appropriately on lab days.
- Eat your breakfast/lunch/snack prior to entering the lab on ANY day. No food is allowed in the lab.
- Keep up with the class in terms of homework and assignments. You will be more successful in Chemistry 30 if you keep up with the content.
- Participate and ask questions in class. Ask for help when you need it.

## Class Policies

### Homework

Students should expect to have homework every day. There are no marks for completed homework. There will be one quiz per week on the material from the previous week's homework, in addition to any labs or activities done in class.

### Late Work

Due dates for assignments are on the Google Calendar on the class website. Students are expected to hand in work by the due date. Work that is submitted within five school days of the due date will be given a "late" designation in PowerSchool, if the student has not made arrangements in advance for an extension.

The late deadline for an assignment is five school days after the due date, at the beginning of class. Graded work will be handed back on the day of the late deadline. At this point, that assignment will no longer be accepted. Students may be given the option to complete an alternate assignment to earn credit for the missing assignment, if it is reasonable to provide that option.

### **Graded Work**

Students may schedule time with Ms. Hayduk to review corrected assignments and tests; however, the mark for an assessment as it was originally submitted (with the exception of marking errors) will stand.

### **Missed Classes**

Make-up labs must be scheduled within one week of the original lab date, and cannot be completed during class time. Due to the nature of the shared lab space, lab equipment cannot be reserved for extensive periods of time. Students are responsible for scheduling a time for their make-up lab.

Missed tests and quizzes must be written the day a student returns to school, unless alternate plans were made in advance. Missed tests and quizzes must be written outside of class time.

### **Attendance Incentive**

As with all other classes, students earn the attendance incentive in this class by having:

- No unexcused absences and seven or fewer excused absences;
- Three or fewer lates;
- No missing assignments and three or fewer late assignments; and,
- All assignments completed in a satisfactory manner (no zeroes).

For the purposes of this class, an assignment will be considered to be completed in a satisfactory manner if they have demonstrated, at minimum, a developing level of proficiency on the assessment.

### **Helping Yourself**

Ms. Hayduk is available for extra help before school and at lunch, by request. She can be found in the science office, across the hall from the classroom. She is not available after school.

It is much easier for Ms. Hayduk to help you if you come with specific questions. There is no limit on questions (but keep in mind that, "I don't get it," is not a question)!

If you are struggling with a whole topic or unit, please make use of the many resources on the course website, as often a different explanation may help to get you on track. Keep in mind that learning new things can be a "mentally uncomfortable" process; it may take some time, effort and many strategies before something clicks.

Please plan to come in well before the deadline of an assignment if you are having trouble.