

Chemistry 30 Syllabus – Spring 2019

Course Specifics

Instructor: Ms. Hilary Hayduk

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Website: www.haydukscience.weebly.com

Textbooks: Chemistry: Matter and Change by Glencoe Science

Extra Help Hours: Science Lab

Monday at 12:30-1:15 PM

Tuesday at 3:30-4:15 PM

Thursday at 7:00-8:15 AM

Course Description

The aim of Chemistry 30 is to provide students with a broad exposure to a variety of chemistry fields and topics. Students will gain understanding of theoretical concepts, develop scientific skills and literacy and practice critical thinking and reasoning. The course builds on previous topics from Science 9, Science 10 and Physical Science 20. Students will have the opportunity to participate in projects and hands-on activities to further their understanding.

Outcomes

The course grade for Chemistry 30 will be determined based on each student's proficiency in the curricular outcomes. There are four main areas of learning, each with one or more outcomes (learning goals):

1. Chemical Bonding and Materials Science (30%)
 - Examine how electrons contribute to the formation of chemical bonds.
 - Investigate how the properties of materials are dependent on their underlying intermolecular and intramolecular forces.
 - Explore the nature and classification of organic compounds and their uses in modern materials.
 - Determine the suitability of materials for use in specific applications.
2. Chemical Equilibria (40%)
 - Examine the characteristics and applications of equilibrium systems in chemical reactions.
 - Analyze aqueous solution equilibria.
 - Observe and analyze phenomena related to acid-base reactions and equilibrium.
3. Electrochemistry (20%)
 - Investigate the chemistry of redox reactions.
 - Examine applications of electrochemistry and their impact on society and the environment.
4. Student-Directed Study (10%)
 - Create and carry out a plan to explore a topic of interest relevant to Chemistry 30 in depth.

Units

There are six units in the course: Electrons and Molecular Forces, Organic Chemistry, Equilibrium, Solubility Equilibrium, Acid-Base Equilibrium and Electrochemistry.

Assessment

All assessments will be categorized into one of the course outcomes (units). Grades will also be entered in PowerSchool by outcome (unit).

The final exam is divided by outcome; all students will be expected to complete at minimum two units, and may choose more. The exam is worth the equivalent of a unit test for each outcome. The exam grade does not replace the unit test mark.

Student assignments will be evaluated on a proficiency rubric. Scores are shown in the table below. Each level is described in more detail in the course lab manual.

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 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 generally 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" 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. All missing work must be submitted by the Monday prior to exams.

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. Students will have the option of doing two quiz rewrites during the semester. These rewrites must be done before school or at lunch, and will replace the mark of the original quiz. Quiz rewrites must be done by the second last Friday before finals.

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

See above for Ms. Hayduk's extra help availability. If you cannot make these times, please ask.

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.