

**Advanced CHEMISTRY
2018-2019
COURSE SYLLABUS**

Lima Central Catholic High School
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Classroom: ST4

OVERVIEW

This course is designed to prepare students for college chemistry. Students explore the fundamental principles of chemistry. Students explore the fundamental principles of chemistry, which characterize the properties of matter and how it reacts. The course emphasizes the atomic and molecular structure, chemical bonding, stoichiometry, properties of gases, solutions, reaction rates and equilibrium, acid-base reactions, and chemical thermodynamics. In addition, the students will be introduced to quantum mechanics, organic and biochemistry, and nuclear chemistry. Laboratory activities will develop students' reasoning power and the ability to apply chemical principles.

TEXT AND MATERIALS/SUPPLIES

- Text: *Modern Chemistry*
- 1 ½" binder for class notes and class work with **loose-leaf paper** (paper torn from a notebook will NOT be accepted)
- Calculator (graphing calculators are NOT allowed)
- One graph Composition notebooks
- Book cover (book should always be covered)
- Pencils
- Colored pencils and markers
- Last name beginning with A-G: 1 box of tissues.
Last name beginning with H-Q: 1 pack of 5 or 8 small/medium poster boards
Last name beginning with R-Z: 1 roll of paper towels
To be turned in the first week of school with student's name written on it.
- iPad (used only when instructed to do so)

SCHEDULE OF INSTRUCTIONAL ACTIVITIES

This is the sequence, but pacing may vary.

- 1st Quarter: Matter and change, measurements and calculations
- 2nd Quarter: Atoms, subatomic particles, and the periodic table
- 3rd Quarter: Nuclear Chemistry, chemical bonding, formulas, compounds, equations, reactions, and stoichiometry
- 4th Quarter: States of matter, ions, acids and bases, energy and kinetics, equilibrium, redox reactions, electrochemistry, biochemistry

TESTING AND EVALUATION

If a student has more than five unexcused absences in any class, per semester, the work will not be accepted for future unexcused absences.

Tests:

- Tests are worth 200 points each.
- There will be a test after each chapter; a combination of multiple choice, matching, true/false, fill-in, and/or short answer questions.
- Absence: if a student is absent on the day of a test, he will be expected to make up the test the day he returns to school. A student must talk with the teacher to make arrangements to take the make-up test the day he returns to school and, if necessary, prepare to stay after school to complete this work. If more than one day is missed, other arrangements will be made, but the student must speak with the teacher the day he returns to school to make these arrangements. Students who do not make arrangements to make up tests upon returning to school following an absence will be docked 10% each day until the test is made up.
- There will be one comprehensive midterm exam given at the end of the semester and one final exam at the end of the year. The exams will be a combination of multiple choice, matching, true/false, fill-in, and/or short answer questions.

Quizzes/labs:

- There will be a quiz given over each section of each chapter covered in the class. Each quiz will be given the class following its presentation. Labs and lab activities will be done in class to demonstrate or investigate material being studied in class.
- Absence: if a student is absent on the day of a quiz, he will be expected to make up the quiz the day he returns to school at 7:30 am unless other arrangements are made. If more than one day is missed, other arrangements will be made, but the student must speak with the teacher at 7:30 am the day he returns to school to make these arrangements. Students who do not make arrangements to make up quizzes upon returning to school following an absence will be docked 10% each day until the quiz is made up.

Assignments/Homework:

- Assignments will be due at the beginning of class unless marked 11:59pm on Google Classroom. All work should be turned in to the designated binder the day it is marked due on Google Classroom (the time on Classroom will be 3:00pm to accommodate all sections). Late work will NOT be accepted unless extenuating circumstances prevented the completion of work. Such circumstances must be determined/approved by Ms. Huber and may happen no more than 2 times in a quarter.
- Absence: work due the day the student is absent is due the day he returns to school. All work will be posted on Google Classroom. It is the student's responsibility to find out what was done in class, what work is due, and when it is due. iPads should go home with the student each day. If a student is absent, he can still keep up with the assignments at home and nothing should be late when he returns to school. A student should meet with the teacher the day he returns to be sure he receives any instructional materials he may have missed during his absence that was not posted on Google Classroom.

Participation/pop quizzes:

- A participation grade will be given. It will include ungraded assignments and in class participation. To be successful, answer questions, ask questions, complete assignments in a timely manner, and follow instructions.
- Pop quizzes may or may not be given. You have the schedule. Be prepared for each class.

Grading Scale:	Percent %	Letter Grade
	100	A+
	95-99	A
	92-94	A-
	89-91	B+
	86-88	B
	83-85	B-
	80-82	C+
	77-79	C
	74-76	C-
	71-73	D+
	68-70	D
	66-67	D-
	0-65	F

INSTRUCTOR EXPECTATIONS**Materials:**

- All students are required to bring all materials, including a notebook, text, their iPad, and writing utensils every class period.
- Students will NOT be allowed to go to lockers to get materials they did not bring to class.

Behavior:

- Students must be respectful of all school property and the property of other students at all times.
- If a student damages school property, they will be financially responsible for its replacement and may have disciplinary consequences as well. The student handbook will be followed and administrators may be involved.
- If a student damages another student's property, they will be financially responsible for the replacement of the property there will be disciplinary consequences. Disciplinary measures taken could include demerits, detention, and/or removal from class. The student handbook will be followed and administrators may be involved.
- Talking or making other disruptive noises during announcements, when others are speaking, or during prayer will result in disciplinary action that could include loss of participation points, demerits, detentions, and/or removal from class.
- Students will actively participate in all class work without being disruptive and will follow lab safety rules when participating in labs.
- Students are expected to remain attentive in class. Working on other assignments/preparing for other classes will not be tolerated during class. Loss of participation points, demerits,

detentions, loss of work (for the other class) may result. Teachers from the other class will be notified and may also decide disciplinary action.

- Non-participation will result in loss of participation points and/or demerits.
- Sleeping in class will result in detention and/or removal from class if this occurs more than once.
- Breaching lab safety rules or lab instructions will result in expulsion from the lab and a 0 grade for that lab. If this occurs more than once, the student will not be allowed to participate in class labs and will have to make up work as assigned.

iPads:

- iPads are to be used only when instructed to do so or when students have special permission to use them.
- Notes are to be hand written, as learning is more effective when notes are written rather than typed.
- iPads used for any purpose other than classwork as instructed will result in demerits, detentions, or loss of the iPad.
- If games are being played during class loss of iPad for the rest of class and a detention will result without warning.
- Using iPads to work on other classwork is not acceptable and will result in loss of iPad for the rest of class, erasing of work completed, demerits, and notification to the teacher involved.

This is a fast-paced course. Please let me know if you are struggling in the class....before material is tested and before the end of a grading period. Use study halls wisely. Peers are available to help or National Honor Society students are generally available on Thursdays after school for tutoring. I will also be available before and after school and by appointment. Please feel free to approach me if/when you have a problem, including emailing me in the evening if you have questions. I urge that you come and see me with any concerns. I am looking forward to a great year. Let's work together to make your semester of Health class an enjoyable experience!!

This syllabus can be changed at the discretion of the lead instructor or chair of the department with advance notice.

I have read and I understand the 2018/2019 Chemistry syllabus.

Student's name:_____ Student's signature:_____

Parent's name:_____ Parent's signature:_____