# **General Chemistry**

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<u>Syllabus Statement</u> Student use of Generative AI software/platforms is not permitted on any coursework/assignments/assessments unless explicitly outlined by the teacher.

This chemistry course is intended to provide students with the knowledge of the basic concepts of chemistry and to help them develop skills for experimental work in the laboratory. The ultimate goal is to educate students so that they can apply their knowledge to understand the world around as well as to pursue further study in science

#### Goals

- -Students will be taught and prepared to meet all the PA Standards for chemistry.
- -They will develop and apply skills to perform observations, measurements, and problem solving in chemistry.
- -They will learn to apply the knowledge and skills acquired through the chemistry education to the real world around them.

## Policies and procedures

1- Materials: Bring the following materials to class

Pencils	Textbook:	Class notebook	Non-programmable	Periodic table
/	eBook	or 3-ring binder	scientific calculator	(provided)
pen	Zumdahl.			
	World of			
	Chemistry/			
	Cengage			

### 2- Assessment & grading:

Classwork, homework:25%	Test and Quiz: 50%	Labs, project :25%

- -Mid-Term and Final exam each worth 10% of final grade.
- -Some quizzes will be announced other not. Be prepared every day!
- -Projects. They will be one per marking period
- -Assignment turned in one day after the due date will earn you half credit unless a valid excuse is provided. Other absence issues will be dealt with according to the school policy. Homework is due the next day

## 3- Class rules:

- -you can use the bathroom pass only outside the first and last 5 minutes of class period.
- -come to class prepared
- -Cellphone use is not allowed during instruction unless. Special permission can be given upon request.
- -Tardiness to class will not be tolerated
- -Any class disruption, disrespectful behavior, and lack of sense of responsibility will be addressed as discipline issue
- -Do your best to attend each lab session as it may be difficult to arrange a time make it up.
- -If you miss a lab due to an excused absence, it is your responsibility to see me to arrange a make-up time before the end of the week of your return to class to avoid a zero.

#### 4- COURSE OUTLINE

Quarter 1	Quarter 2	Quarter 3	Quarter 4
1- Introduction	6- Ionic and	10- Bonding and	14- Acids and
to Chemistry	Molecular	Properties of	Bases
2- Matter	Compounds	Solids and	15- Oxidation and
3- Measurement	7- Chemical	Liquids	Reduction
4- Atoms and	Quantities	11- Gases	16- Nuclear
Elements	and Energy	12- Solutions	Chemistry
5- Electronic	8- Chemical	13- Reaction	17- Organic
Structure of	Reactions	Rates and	Chemistry
Atoms and	9- Chemical	Chemical	18- Biochemistry
Periodic	Quantities in	Equilibrium	
Trends	Reactions		

#### **5- LAB GUIDELINES**

- a. **Safety in the lab**. You will watch a video and read the safety rules and procedures in the chemistry laboratory. Then you take a safety test and pass it with at least 80% accuracy before you will be allowed to complete your first lab.
- b. **Lab notebook** must be well maintained. Your report is due on the day after the weekend following the lab. Report should include: 1. **The title, 2. The materials and procedures, 3.data, 4. analysis, and 5. conclusion** (refer to details on lab guidelines)
- c. Lab report. You will need a lab notebook and each report must include:
  - i. You and your partner's names
  - ii. The date
  - iii. The title of the lab: It should describe the nature of the experiment. In some cases, you may be allowed to use the title provided by the teacher
  - iv. The Rationale and Purpose: State why you are doing this lab and the logic behind it. This is also where you will describe the problem and make your hypothesis
  - v. Materials and Methods: Describe your procedures and provide the materials list you used. How you gathered and analyzed your data and the controls in your experiment. This section should be written

in the past tense and passive voice. For example, write 5 g of NaCl were dissolved in 100mL of distilled water instead of "I dissolved 5g of NaCl in 100mL of water"

- vi. Data Tables and Charts
- vii. Graphs when applicable
- viii. Results/conclusions. Write one or two paragraphs to discuss and contrast your results with expected values. Also, discuss here any deviation to the accepted value and the potential source of errors