Advanced Chemistry

Class website: on Canvas  Teacher email: ebrucker@naperville203.org

Guidelines for Success: It takes PREPARATION – RESPONSIBILITY – INTEGRITY – DEDICATION and EFFORT.

Course Description: This is a one-semester, inquiry-based course focusing on various analytical techniques used in the scientific community. Laboratory experiences will expose students to the synthesis, separation and identification of organic compounds. Topics may include: forensics, organic chemistry, spectroscopy, polymer chemistry. The course will culminate with a research project, including the publication of its results. While not preparing a student for the AP examination, it will offer college-bound students a background in chemical analysis.

CONTENT UNITS:
Atomic Structure
Gravimetric Calculations
Bonding and Geometric Shape
Organic Naming
Organic Functional Groups
Spectroscopy
Forensics

GRADING:
Your coursework grade will be based upon the following:

- Chapter Tests (50%)
- Labs (25%)
- Quizzes (20%)
- Homework (5%)

Your semester grade will be determined by:

- Coursework (85%)
- Semester Final (15%)

Grading Disbursement:
A= 90-100  B= 80-89  C= 70-79  D=60-69  F= <59

TO BE SUCCESSFUL IN THIS CLASS:
Inside classroom:
1. BE ENGAGED—take notes. Participate in labs and group problem solving. Share what you are thinking.
2. ASK QUESTIONS- If there is something you don’t understand or need clarified- ASK right then. Questions are welcomed and help you understand!
3. STAY ORGANIZED- there are a LOT of handouts and labs in this class. Have a binder where you have sections for labs, worksheets, and notes.

Outside of classroom:
1. READ THE TEXTBOOK- it a great resource! Take Notes as you read the text—make an outline of the section.
2. DO THE HOMEWORK- You must practice outside of class to reinforce understanding- DAILY! This is the only way to stay on top of the material.
3. PREPARE FOR TESTS & QUIZZES- Create a study guide from the targets for the chapter. It will help you review the material and focus on what you will be assessed on.
4. COLLABORATE WITH OTHERS- Find some others in the class to study with in the morning, during lunch or after school. When you teach others, there is a deeper understanding of the material that happens.

HELP!
Do you need extra help for this course? What can you do?
1. Come find your teacher in the morning, during lunch, or after school (Please make an appointment with me.)
2. Get a tutor in the Lit Center- You can drop in one time, or you can set up a weekly visit.
3. Supervised Open Study (SOS) is available after school on Mondays –Thursday up in the lit center. This is place to do your homework and study and seek out help in all subject areas (a teacher from each subject is present).

RETAKE POLICY:
There will be no retakes given in this course on any assignment, quiz, lab or test.

COMMUNICATION POLICY:
My email is ebrucker@naperville203.org. Please email me if you miss class.

INFINITE CAMPUS:
Grades will be updated on a weekly basis. Please check to make sure the grades are accurate.