**Ridgeview High School**

**Mr. Tyler Mullins**

**Room 301**

**Contact Information:**

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* Email: tmmullins@dcps.k12.va.us
* Office Hours: Monday-Friday 1:20 PM - 3:00 PM

 \*or by appointment

\*I can also be reached by email outside of normal office hours between 4PM-7PM Monday-Friday

**Course Description:**

* Welcome to the amazing world of Chemistry II! Chemistry is all around us, from the air that we breathe to the water that we drink. This course will explore the study of the composition of matter and the changes that matter undergoes. Students will focus on several foundational concepts such as the periodic table, atomic structure, chemical formulas, balanced equations, molar relationships, and the kinetic theory. Students will be performing laboratory exercises that correlate with the material being focused on for that particular section. Students will be quizzed and tested over material on a weekly basis. There will be a heavy focus on laboratory techniques and formal laboratory write-ups.

**Course Objectives (Standards of Learning):**

* CH.1 The student will demonstrate an understanding of scientific and engineering practices by: a) asking questions and defining problems b) planning and carrying out investigations c) interpreting, analyzing and evaluating data d) constructing and critiquing conclusions and explanations e) developing and using models f) obtaining, evaluating, and communicating information
* CHEMII.2 The student will investigate and understand that atoms and molecules can be identified by their electron distribution and energy.
* CHEMII.3 The student will investigate and understand that the chemical and physical properties of materials can be explained by the structure and arrangement of atoms, ions, or molecules and the forces between them.
* CHEMII.4 The student will investigate and understand that the relative orderliness of the arrangement of particles, their relative freedom of motion, and the nature of the strength of the interactions determine states of matter.
* CHEMII.5 The student will investigate and understand that atoms are conserved in chemical reactions.
* CHEMII.6 The student will investigate and understand that rates in a chemical reaction are observable and measurable.
* CHEMII.7 The student will investigate and understand that many observable processes are reversible.
* CHEMII.8 The student will investigate and understand how equilibrium concentrations of a neutralization reaction are related to the strength of the acids and bases involved.
* CHEM.9 Students will investigate and understand a specific field in chemistry. Topics, such as these listed, may include: thermochemistry, organic chemistry, electrochemistry, biochemistry, nuclear chemistry.

**Texts:**

* Sarquis, M., & Sarquis, J. L. (2012). *Modern Chemistry*. Orlando, Florida: Houghton Mifflin Harcourt Publishing Company.
* Various supplemental texts as necessary

**Class Expectations:**

* Be respectful of others
* Give your full attention during class
* Give your best effort every day
* Actively participate during class
* Turn in assignments on time
* Be prepared for class each day
* Take responsibility for yourself and your work
* Keep your cell phone put away during class
* Bring your Chromebook to class everyday
* Follow all school safety rules and procedures
* Follow all lab safety rules and procedures
* Do not be afraid to ask questions

 **Class Procedures:**

* Beginning class:
	+ Make sure that you have all materials needed for the day: Chromebook, lab notebook, regular notebook, writing utensil; make sure that you have appropriate clothing and footwear if we will be in the lab that day.
* Bathroom breaks:
	+ One bathroom break will be given approximately halfway through the class; students may ask permission to go to the bathroom at other times as necessary; please try to limit bathroom breaks so instruction is not interrupted
* Class dismissal:
	+ Students will remain in their seats until dismissed
	+ Students are dismissed from class by the teacher; not by the bell
* Online learning platforms:
	+ Students will use online learning platforms (Google Classroom) throughout the semester for various assignments, but it may not be used on a daily basis.
	+ I will provide instructions as to when we will use an online platform.
	+ Please bring your Chromebook to class every day!
* Homework/Daily Assignments:
	+ Classwork and homework assignments will be submitted on paper or on Google Classroom depending on the specific assignment
	+ The formal lab notebook will be a primary focus for grading in this course. Please bring your lab notebook to class every day.
	+ Assignments must be turned in by the due date to receive full credit unless other arrangements have been made with the teacher
	+ Assignments submitted late will have 5 points deducted for each day late
	+ Assignments turned in more than 5 days late will not be accepted, and a zero will be given for the assignment
* Make-up work/Missed class:
	+ If students are unable to attend class during the regular class period, they should contact the teacher to develop a plan to make up the lesson. It is the student’s responsibility to contact me about make-up assignments.
	+ Students will have up to 5 days to turn in missed assignments
	+ Assignments turned in after 5 days will not be accepted, and a zero will be given for the assignment
* Lab safety precautions:
	+ Follow all safety rules and regulations while in the lab area.
	+ Students should handle all lab equipment and materials with care.
	+ Students should be familiar with the emergency eye wash station and shower and where to locate the first aid kit.
	+ Food and drinks are strictly forbidden in the lab area.
	+ Horseplay is strictly forbidden in the lab area.
	+ Always be conscious of what you are doing in the lab and follow all instructions closely!
	+ Always clean up the lab area and equipment after completing lab work.

**Electronic Devices Policy:**

* **Cell phones should be turned off and put away during class without any exception.**
* Students may possess or use personal electronic devices on school property, on school buses, or at school-sponsored events according to the following guidelines:
	+ Before school until the beginning of the school day
	+ During a student's lunch period
	+ During class changes
	+ After school
* Cell phones or other personal electronic devices with earphones, ear pods, and headsets must be turned off or silenced and stored out of sight during the entire instructional block in classrooms except where deemed medically necessary by the school administrator.
* Students may also have the option to store cell phones in a designated area in the classroom. Any cell phone or other personal electronic device that rings or vibrates at a prohibited time or location is considered in use and will be considered a violation of this policy.
* Violating the cell phone policy in school policy will result in the following consequences:
	+ Classroom- Teacher warning
	+ 1st Offense: Office warning
	+ 2nd Offense: 1 day ISS \*Phone is left in office
	+ 3rd Offense: 2 days ISS \*Phone is left in office
	+ 4th Offense: 1 day OSS
	+ 5th Offense: Disciplinary Committee
* Personal electronic devices may not be used to cause any disruption in the educational process or for unethical or illegal purposes. Prohibited uses include, but are not limited to:
	+ Cheating on assignments and/or tests,
	+ Harassing or bullying others,
	+ Taking or distributing unauthorized photographs or recordings of other people
	+ Personal electronic devices may not be used to access any obscene, threatening or otherwise inappropriate material via any form of electronic communication.
	+ Live streaming or social media posting during the school day is not allowed.

**Materials:**

* Pen (black or blue ink)
* Pencil
* Notebook (regular)
* 3 ring binder (optional)
* Lab notebook
* Textbook (as needed)

**Attendance:**

* Daily attendance is required and expected. Students are responsible for making up all work that is missed due to an absence. Please refer to the student handbook for the DCPS attendance policy. Students should turn in an excuse for absences. Each unexcused absence will reduce the nine-weeks average by one point. Three unexcused tardies or check-outs will reduce the student’s nine-weeks average by one point.

**Grading:**

* Final grades will be determined as follows:
	+ Formal Lab Work: 40% of each grading period
	+ Tests/Quizzes: 15% of each grading period
	+ Homework: 20% of each grading period
	+ Participation: 25% of each grading period
* Grading scale:
	+ 90—100=A
	+ 80—89=B
	+ 70—79=C
	+ 60—69=D
	+ 59 or below=F

**Whenever Engaged In A Laboratory Experience:**

* **Do** wear clothing that demonstrates your role as a student of chemistry. When engaged in laboratory activities, tie back long hair, secure loose clothing, and remove dangling jewelry.
* **Do** remove headwear when you enter the room. *(things like hoodies, things that will be a potential combustible)*
* **Do** use correct grammar and appropriate words.
* **Do** leave all food and drink outside of the classroom. **Having food and beverages inside of a classroom-laboratory is a violation of school policy, safety procedures, and Virginia state law.**
* **Do** wear goggles at **ALL** times when engaged in a laboratory experience. This is consistent with safety procedures and Virginia state law. If a student is discovered not wearing goggles during a laboratory experience, he/she will not be allowed to complete the laboratory experience and will receive a grade of zero.

***Remember: It’s all fun and games until someone loses an eye!!!***