

DC Chemistry Lecture and Lab

Mrs. Casey

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Mrs. Casey's Schedule:

	1st Period 8:20-9:50	2nd Period 9:50-11:20	3rd Period 11:30 – 1:20 (Includes lunch)	4th Period 2:20-3:50
A DAY M,W	Physics	Chemistry	Chemistry	Chemistry
B DAY T,R	Conference	Physics	Chemistry	Chemistry

Tutoring / Computer Hours: Tutoring and computers will be available during Advisory daily.

If you or your student have any questions or desire a conference with me, please call or email and set up a meeting time so that I will be able to give you my undivided attention when we meet. Please feel free to contact me at any time should you have any questions regarding your child's status in my class. I look forward to a great year this year with your student.

Required Supplies (Please bring by end of first week.)

- Pencils
- Pens (blue or black ink only)
- Metric Ruler
- Scientific calculator able to perform trig functions
- Additional materials may be needed throughout the semester for completion of group projects
- Optional Classroom Supplies: Box of Kleenex

Class Culture

The class environment is centered around teamwork, problem solving, communication, and learning through exploration and projects that develop creativity and independence.

Course Description

General Chemistry will provide you with an understanding of the underlying principles of chemistry including the composition, structure, properties, and reactivity of matter. Topics include the physical and electronic properties of atoms, chemical formulas and reactions, periodic trends and the basic principles of chemical bonding. Good study habits will be essential to your success. You will have to employ logic and critical thinking in order to solve a wide variety of both problems. Many resources will be available to provide a learning advantage. Remember-Study, Study, Study-Chemistry requires you to read, review and practice possibly 1-2 hours per hour of class. Don't "brain dump" after an exam, Chemistry is a building background course. Form study groups, don't get behind and take advantage of tutoring.

Grading Policy

This course will follow the UT Tyler grading requirements.

Lecture

3-4 midterm exams 50%

Homework 20%

Element Project 10%

Final Exam 20%

Lab

Pre-lab quizzes 15%

Post Lab Quizzes 20%

Lab Practical 15%

Laboratory Techniques and Reports 40%

Teamwork project 10%

Classroom Rules

1. Safety is our first priority and therefore all lab rules must be strictly followed. Students must be signed off to use tools and equipment. Any student that does not follow safety rules will be immediately removed from the activity and given a zero.
2. Respect Yourself, Others, and Property even if it requires intentional effort. This means:
 - Remain positive. Speaking about others or yourself negatively is not allowed.
 - When others are speaking you will give them your full attention.
 - Please use appropriate language (No cursing).
 - Please use furniture properly.
 - Please dispose of trash whether it is yours or not.
 - Please ensure all supplies / tools are put up in their designated 'home' neatly.
 - Please do not disturb items around or in the teacher's desk, and the teacher laptop is strictly off limits.
3. Be prompt, be prepared, and participate!
4. Computers will be used for academic purposes during designated times only. Proper electronic etiquette will be followed when I am speaking (or someone else has the floor) and no games are ever allowed in my lab—no exceptions!
5. No food or drink in class (except for a medical need or for water in a container that can be secured).
6. Cell phones and other technology are only allowed at the teacher's discretion. **IF CELL PHONES ARE USED INAPPROPRIATELY IN CLASS THEY WILL BE TAKEN UP AND THE STUDENT CAN RETRIVE IT FROM THE OFFICE AFTER 4:00 PM THE SAME DAY.**

Classroom Procedures

1. Everyone must participate. This is the only way our class will reach its full potential.
2. The teacher dismisses class.
3. Units must be shown, and the steps used for all solutions must be neatly recorded.
4. Please bring all required materials to class each day. This includes, but is not limited to:
 - a. Calculator capable of scientific notation and log functions. Sharing of calculators is not allowed on tests and I do not have any to loan out. Cell phones do not count as a calculator on test days.
5. Any time a student needs to leave the classroom they must sign out and sign back in when they return.
6. Begin working as soon as you enter the classroom. There will always be an assignment up on the board when you enter.
7. All papers must include the proper heading as instructed by the teacher. This will include: Name, Number, Date, and Class Period.
8. All assignments are to be turned in to your class' folder. Failure to do so may result in a lost assignment.
9. Student "visitors" will not be allowed to work in / enter my room while another class is in session.

Student Learning Outcomes:

By the end of the course, you should be able to

- 1) Define the different classes of matter, compounds, and chemical reactions
- 2) Solve quantities based on chemical equations
- 3) Describe the electronic structure of atoms

- 4) Predict periodic trends of the elements
- 5) Explain the bonding and shape of simple molecules or ions
- 6) Use original thinking and logic to solve problems
- 7) Demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture

Course Topics

Introduction: Scientific Method, Safety, Matter and Measurement

Atoms, Molecules, and Ions

Stoichiometry: Calculations with Chemical Formulas and Equations

Aqueous Reactions and Solution Stoichiometry

Thermochemistry

Electronic Structure of Atoms

Periodic Properties of the Elements

Basic Concepts of Chemical Bonding

Molecular Geometry and Bonding Theories

Properties of Gases and Gas Laws

Cheating and Plagiarism

Cheating and plagiarism will not be tolerated in my class and will result in the paper getting taken up and graded as is. Should the student fail, they are allowed a retest but must attend two tutoring sessions in addition. Students that are caught cheating in pairs will share the grade. Additionally, a disciplinary referral will be submitted for action by the principal.

Late Work

In accordance with UT Tyler, late work will not be accepted for this class. There will also be no retests for this course.

Absences and Tardies

If possible, work missed due to absences should be picked up and attempted before returning to class so the student better connects with the new lessons. Make up work is the sole responsibility of the student.

If you are going to be absent the day a project is due you must find a way to turn it in on time. This can be done through email, turning it in early, or finding a way to transport it to school the day of the presentation. This is especially important if the project is group project.

First period tardies will be sent to the secretary for a late pass. Any tardies that occur in later periods will be marked as tardy and there will be no make up work given for the time they missed (unless the tardy is excused).

Attendance

If a student misses 10 classes a semester the student will be considered absent failing and will be sent before an advisory committee. Calls will be made after the third, fifth, and seventh absence.

ISS

If a student is placed in ISS they will be given a chapter from the textbook to copy and problems to complete. The grade will supplement for any work that is missed in class.

*** This syllabus may change at the teacher's discretion. ***