



Syllabus: Dual Credit Chemistry

Course Number: Chem 1411

Instructor Information

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Textbook Information

Chemistry: The Central Science, Brown, LeMay, and Burnsten- 8th edition

Student Learning Outcomes for Chem 1411

The learning outcomes for Chemistry 1411 are published by the Texas Higher Education Coordinating Board and are available from the Lower-Division Academic Course Guide Manual. The following are included for those that successfully complete the course:

1. Define the fundamental properties of matter.
2. Classify matter, compounds, and chemical reactions.
3. Determine the basic nuclear and electronic structure of atoms.
4. Identify trends in chemical and physical properties of the elements using the Periodic Table.
5. Describe the bonding in and the shape of simple molecules and ions.
6. Solve stoichiometric problems.
7. Write chemical formulas.
8. Write and balance equations.
9. Use the rules of nomenclature to name chemical compounds.
10. Define the types and characteristics of chemical reactions.
11. Use the gas laws and basics of the Kinetic Molecular Theory to solve gas problems.
12. Determine the role of energy in physical changes and chemical reactions.
13. Convert units of measure and demonstrate dimensional analysis skills.

Specific laboratory objectives required by the Texas Higher Education Coordinating Board and available from the Lower-Division Academic Course Guide Manual are:

1. Use basic apparatus and apply experimental methodologies used in the chemistry laboratory.
2. Demonstrate safe and proper handling of laboratory equipment and chemicals.
3. Conduct basic laboratory experiments with proper laboratory techniques.
4. Make careful and accurate experimental observations.
5. Relate physical observations and measurements to theoretical principles.

6. Interpret laboratory results and experimental data, and reach logical conclusions.
7. Record experimental work completely and accurately in laboratory notebooks and communicate experimental results clearly in written reports.
8. Design fundamental experiments involving principles of chemistry.
9. Identify appropriate sources of information for conducting laboratory experiments involving principles of chemistry.

Student Assessment

- Each six weeks will be 50% Tests and 35% Quizzes & Labs and 15% homework.
- Your semester average will be calculated with each six weeks counting once and the semester final counting once.
- Every student (dual credit or not) will be required to take the semester exam for the fall and spring semester.

Grading Scale for dual credit course: (Anything below a 70 is an F for the high school credit)

| Grade | |
|--------------|----------|
| A | 90-100 |
| B | 80-89 |
| C | 70-79 |
| D | 60-69 |
| F | 59-below |

Topics for Fall Semester Chem 1411

1st Six Weeks

- Chapter 1 – Matter & Measurement
- Chapter 2 – Atoms, Molecules & Ions
- Chapter 3 – Stoichiometry
- Begin Chapter 4 – Aqueous Reactions

2nd Six Weeks

- Chapter 6 – Electron Structure of Atoms
- Chapter 7 – Periodic Properties
- Chapter 8 – Basic Concepts Bonding
- Chapter 9 – Molecular Geometry
- Chapter 11 – Intermolecular Forces

3rd Six Weeks

- Chapter 10- Gas Laws
- Chapter 14 – Chemical Kinetics

Topics for Spring Semester Chem 1412

4th Six Weeks

- Chapter 15 – Chemical Equilibrium
- Chapter 16 – Acid-Base Equilibrium

5th Six Weeks

- Chapter 17
- Chapter 5 & 19 – Thermochemistry and Thermodynamics

6th Six Weeks

- Chapter 20- Electrochemistry
- Review for course final

Attendance Policy

The course will follow the New Boston High School attendance policy.

Make-up Policy

At least two test grades will be given each six weeks. Since tests count 50% of the student grade, it is very important to the student to do his or her best and be prepared for each test. Since this is a college class, students are not allowed to re-take tests or quizzes, redo homework or lab reports. If a student is not present the day the test is administered, an alternative test will be given and must be taken in the appropriate time frame based on district policy. If the test is not taken in the time period given, points will be deducted from the test grade. The alternative test will cover the same material; however, number of questions and question format is at the teacher's discretion. Students are welcome to take the test in advance if they know ahead of time they are going to miss.

Academic Integrity Statement

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an "F" This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the Student Handbook at <https://texarkanacollege.edu>.

Disability Act Statement:

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Larry Andrews at 903.823.3283, or go by the Recruitment, Advisement, and Retention Department located in the Administration building for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations.

SUPPLIES

- 3 ring binder and a notebook – you will be getting a lot of handouts and taking a lot of notes
- Pen/pencil
- Dry erase marker
- Calculator – graphing calculator is preferred (don't go and buy one if you don't already have one, they are too expensive)

HOMEWORK

Students will be assigned homework to help with the concepts that were discussed in class. Homework problems are assigned so that the students will have practice working problems prior to the weekly quizzes. *It is the responsibility of the student to ensure that they understand the material.*

HOMEWORK HELP!!!

Please see me if you need help so we can make arrangements for tutoring. I am available on the days we meet during 8th block. I am also available on Friday's during study hall time. Please ask for help as soon as you realize you need it, do not wait until the night before the test.

LABS

- Students must follow all safety guidelines discussed in class. Failure to follow safety rules will result in removal from the lab and alternative assignments will be provided until lab privileges are returned to the student.
- Not all labs will be able to be completed during class time. Parts of some labs must be done outside of class, including the pre and post lab assignments. Some labs take require the students to come in at times other than normal class times to collect data. It is the students/groups responsibility to ensure this is done. Data collected depends on the final lab grade.
- Labs will have a completion date provided. If labs are not turned in on time, then points will be deducted from the actual lab grade.

Quiz Grade #1 – Please sign and return to Mrs. GRISHAM
DC CHEM

Student's (PRINTED) Name _____

Parent's Name _____

Parent's e-mail address _____

- If you do not have an e-mail address or would prefer to be contacted by telephone, in the event that any concerns arise, please write your phone number below.
- Phone number _____
- Do you have internet access at home? ___yes ___no

I have received, read and understand the course syllabus.

Student's Signature _____ Date _____

Parent/Guardian's Signature _____

Date _____

Please state any concerns or needs that you feel I should know regarding your student.