



Introductory Chemistry II - Chem 1407 (dual credit) Course Syllabus: 2019

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	7:00 AM to 5:00 PM	7:00 AM to 5:00 PM	7:00 AM to 5:00 PM	7:00 AM to 5:00 PM	7:00 AM to 5:00 PM	

The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Catalog Course Description (include prerequisites):

Introductory Chemistry II is a continuation of CHEM 1405. This course includes the study of electrochemistry, solutions, acids and bases, chemical equilibria, and nuclear chemistry. Selected topics in organic and biochemistry will also be included. 4 credit hours.

Prerequisite: CHEM 1405

Required Textbook(s):

Chemistry: The Central Science; Brown & LeMay 11th Ed.

Publisher: Prentice Hall

ISBN Number: 0-13-061142-5

Student Learning Outcomes:

1. Students will recognize factors that affect reaction rates; demonstrate the ability to determine reaction rate laws from experimental data and write equilibrium constant expressions for a reversible reactions and demonstrate the use of Le Chatelier's principle.
2. Students will be able to solve problems involving pH, the ionization constant of water, ionization constant values and acid-base titrations.
3. Students will determine the solubility product constant for a salt and the corresponding implication on solubility including the impact of the common ion effect.
4. Students will understand entropy and how it relates to reaction spontaneity.
5. Students will be able to solve simple problems involving enthalpy and entropy to determine the effect of temperature on spontaneity
6. Students will be able to identify substances that are oxidized and reduced in a chemical reaction
7. Working in teams, demonstrate use of critical thinking and scientific problem-solving skills in the laboratory including the ability to carry out experiments in a safe and efficient manner. Laboratory reports will be used to test the ability of students to work in teams and to interpret and to communicate results effectively in writing.

Lectures & Discussions:

This hybrid online course is meant to cover the same concepts and topics covered in the traditional face-to-face introductory chemistry course. The textbook and communication with the instructor are still critical resources and available. You may contact me any time by email and I will respond as soon as possible. In some cases I may schedule an online conference utilizing blackboard. Traditional lectures are replaced by PowerPoint slides containing notes and examples and assorted instructional videos. An important resource to any course is the ability to discuss questions with peers. To foster peer teaching/assistance online discussions will be utilized. Details can be found on blackboard.

Evaluation/Grading Policy:

Evaluations will be based on homework and lab assignments, discussions, exams and a comprehensive final exam.

The percent break down is as follows:

Grades will be determined using the following breakdown

Quizzes/Homework	20%
Discussions	10%
Laboratory assignments	25%
Exams	30%
Final Exam	15%

A final grade for the course will be based on the following scale:

<u>Grade</u>	<u>% of Total Points</u>
A	90 to 100
B	80 to 89
C	70 to 79
D	60 to 69
F	0 to 59

Tests/Exams:

Test will be scheduled throughout the semester to correspond topics covered in specific chapters of the textbook. All exams will be administered during the normal class period. In the event that a student misses a scheduled exam they must make arrangements with the instructor to come in before or after regular class hours.

Assignments:

All assignments will be announced in class and due dates identified. In addition to homework a mixture of virtual labs and traditional wet labs will be utilized. Traditional wet labs will take place during normal class periods. Virtual labs will be completed outside of class. These virtual labs require a computer with internet access.

Other Course Requirements:

N/A

Student Responsibilities/Expectations:

This online course allows you the flexibility of completing assignments at a pace and location of your choosing. If you manage your time, work hard, utilize all available resources and ask questions of me or your peers you should be successful. This will not be the case if you procrastinate or try to fit a weeks worth of assignments into the final two hours before they are due. You are choosing to take this online course which requires a computer and a dependable broadband internet connection. As a result of this

choice do not ask for extensions to due dates. Any assignment, lab, or test that is not completed by the assigned due date will be graded as is or assigned a zero.

NTCC Academic Honesty Statement:

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

Academic Ethics

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the NTCC Catalog or Student Handbook.

Family Educational Rights And Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

Other Course Policies:

NA