CHEM 1407 — Introductory Chemistry II Frank Phillips College

General Course Information

Credit Hours: 4 General Education Core Curriculum Course

Prerequisite

None

Course Description

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry.

(A study of the chemistry of the materials and energy that man produces and consumes, his means of production of food and its attendant problems and the effect these have on the ecosystem. There is an emphasis on environmental aspects related to these topics. This course is designed for students planning to enter senior college as non-science majors. Must be taken with a laboratory section.)

THECB Approval Number	01.51 03
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Statement of Purpose

Through the Texas Core Curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

Core Objectives Required for Life and Physical Sciences Courses

Courses in this category focus on describing, explaining, and predicting natural phenomena using the scientific method.

Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences.

- **Critical Thinking Skills** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Communication Skills** to include effective development, interpretation and expression of ideas through written, oral and visual communication
- **Empirical and Quantitative Skills** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- **Teamwork** to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

Learning Outcomes:

Upon successful completion of this course, students will:

- 1. Identify and analyze man's impact on the natural recourses found on Earth.
- 2. Explain the structure of the atmosphere, its function and the impact of man-made pollution on air and water quality with particular emphasis on the greenhouse effect and ozone depletion.
- 3. Comprehend the origins of energy, the chemical constraints and history or energy use.
- 4. Compare and contrast the benefits and problems of the various fossil fuels and renewable energy sources. Explain the political and ethical considerations of energy use.
- 5. Analyze the impact of health and fitness on peoples' life.
- 6. Evaluate the differences between different household chemicals (green versus nongreen chemicals); compare and contrast the different chemicals people use every day.
- 7. Recognize the global and individual impact of chemicals.

Methods of Evaluation:

- 1. Chapter Exams (50 % of total grade)
 - a. There will be up to 6 equally weighted exams. The first exam missed due to excused absences will be your dropped test. Further tests will be made up and may be oral.
- 2. Participation grade. (15% of total grade). Includes:
 - a. Homework requirements adequately met: (10 % of total grade)
 - b. Demonstrating that outside reading was met. (5% of total grade)
- 3. Writing assignment (10% of total grade)
- 4. Lab activities (25% of grade): The lowest individual lab grade will be dropped. There are no makeup labs. Grading will be based on your data, calculations and the discussion of results and conclusions using post lab questions.
- 5. Final grade derived will be reported as: 90 -100= A, 80 89= B, 70 79= C, 60 69= D, <60 = F. Students will receive their semester grades & other course information on line. Semester grades are reported on line. Students are responsible for checking their grades to see how they are doing throughout the semester.

Academic Honesty and Integrity

Students attending Frank Phillips College are expected to maintain high standards of personal and scholarly conduct. Academic dishonesty including, but not limited to, cheating, collusion (working with anyone else to produce work for which you take credit without the professor's permission), utilizing resources such as books and notes for a test without the professor's permission, and plagiarism is considered a serious offense and may result in disciplinary actions including:

- A grade of 0 for the test or assignment
- A semester grade of F for the course
- Administrative withdrawal from the course
- Academic suspension
- ***Faculty members have the right to assign a failing grade to a student who is guilty of academic dishonesty at any point during a semester. Faculty members

may prohibit a student from dropping a course when academic dishonesty is discovered. However, if a student has dropped the course in accordance with the rules and dates applied to dropping a course and prior to the discovery of academic dishonesty, the grade of W will stand. Students currently enrolled in a course and students who have completed a course (A, B, C, D, CT, and I) may have a grade changed to an F if academic dishonesty is discovered. The faculty member must notify the student of the change to the final grade within one week of facilitating the change. The student will have the opportunity to appeal the final grade change according to the college policy stated in the catalog.

Class Attendance

Regular attendance is necessary for satisfactory achievement. Therefore, it is the responsibility of the student to attend class in accordance with requirements of the course as established by the instructor.

Students will be excused from class without penalty when either representing the college in an approved activity or having an approved reason for not attending. Reasons for absences must be approved by the instructor of the course. These exceptions do not relieve the student of the responsibility of making up the missed work as designated by the instructor concerned.

Students who enroll in one or more college-preparatory course(s) because of TSI deficiency will be administratively withdrawn from all classes if the course in which they are excessively absent is their only preparatory course. For a student enrolled in more than one preparatory course, the student may be dropped from only the course affected by absences.

Any student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day, provided that proper notification of the absence is given to the instructor of the course missed. The student should notify the instructor within the first fifteen (15) days of the semester that he or she intends to be absent on the specified holy day.

Cell Phones and Other Electronic Devices Procedure:

Cell phones and electronic devices in the classroom create a distraction for both students and faculty. Cell phones are also considered suspicious during test taking. Therefore, Frank Phillips College outlines the procedure for handling cell phone usage in a classroom as follows:

- 1. First Offense: the student will be warned verbally by the instructor to turn off the cell phone or electronic device or by appropriate administrative personnel at distance sites. The instructor will make a notation of the infraction.
- 2. Second Offense: the student will be asked to leave the class period for the day and will receive zeros for any work done in class on that day; a student receiving instruction through remote connection at an off-campus site will be required to attend the class face to face in Borger from this class date forward.
- 3. Third Offense: the student will be administratively withdrawn from the class in which the infraction occurred and will receive no refund for the class.

Students should leave the college's main number with an appropriate contact in case of an emergency.

Borger: (806) 457-4200, ext. 0 or 886-5047 after hours Perryton: (806) 648-1450 Dalhart: (806) 244-7669

Grievance Policy

If you have a dispute concerning your grade or policies in this class, it is your responsibility to FIRST contact the instructor, either by e-mail or in person, to discuss the matter. Should things remain unresolved after this initial contact, please follow the procedures described in the Academic Policies section of the Frank Phillips College Catalogue. In the vast majority of cases, the matter can be resolved at the instructor/student level, and learning to communicate your concerns in a civilized manner is part of the college experience.

Important Information

Frank Phillips College is a Microsoft Office Campus. You must submit your electronic assignments in Microsoft Office programs only. If you do not have Microsoft Office, you may use one of the computer lab sites on campus for your class work.

Scans/Or Core Competencies That Will Be Addressed in the Class

Resources: Allocates Time Allocates Money Allocates Material & Facility Resources **Interpersonal:** Participates as a Member of a Team **Teaches Others** Serves Clients/Customers **Exercises** Leadership Negotiates to Arrive at a Decision Works with Cultural Diversity **Technology:** Selects Technology **Applies Technology** Maintains & Troubleshoots Technology **Basic Skills:** Reading Writing Arithmetic Mathematics Listening& Speaking

Information: Acquires & Evaluates Information **Organizes & Maintains Information** Uses Computers to Process Information **Thinking Skills: Creative Thinking Decision Making** Problem Solving Seeing Things in the Mind's Eye Knowing How to Learn Reasoning **Systems: Understands Systems** Monitors & Corrects Performance Improves & Designs Systems **Personal Qualities:** Responsibility Self-Esteem Sociability Self-Management Integrity/Honesty