

COURSE INFORMATION SHEET

SOUTH PLAINS COLLEGE, WELLMAN-UNION CAMPUS

DEPARTMENT OF SCIENCE

DIVISION OF ARTS AND SCIENCES

DISCIPLINE: CHEMISTRY

CHEM 1411: GENERAL CHEMISTRY I (4:3:3)

COURSE SECTION: 422

FALL 2019

INSTRUCTOR: MR. SHAWN HORN

This course satisfies a core curriculum requirement: Yes – Life and Physical Science

Core objectives to be addressed:

Communication – to include effective written, oral and visual communication

Critical Thinking Skills – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Teamwork Skills – to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

Prerequisites: MATH 1314 (College Algebra) or equivalent academic preparation; high school chemistry is strongly recommended.

INSTRUCTOR: Shawn Horn, M.S.

Office: 414

Telephone: 806-637-4619

E-mail: shawn.horn.ttu@gmail.com

OFFICE HOURS: MTWRF 12:43 – 1:10

COURSE MATERIALS: TEXTBOOK: Nivaldo J. Tro, Principle of Chemistry: A Molecular Approach, 1st Edition.

COURSE DESCRIPTION: CHEM 1411: General Chemistry I. (4:3:3) Pre-requisite: MATH 1314 (College Algebra) or equivalent academic preparation; high school chemistry is strongly recommended. Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Basic laboratory experiments supporting theoretical principles presented in lecture; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

COURSE PURPOSE: The purpose of the life and physical science component in the core curriculum is to enable the student to understand and apply relationships and theories of the natural sciences. Mastering general chemistry will enable the student to use the fundamentals to analyze, classify, and predict events based on chemical and physical properties.

LECTURE EXAMS: There will be FOUR lecture exams and a final exam; these exams will cover the materials discussed in the lectures, and the schedule of the lecture exams are on the course schedule along with lecture information. Lecture exams will be in a multiple-choice format, 50 questions in length. Only the materials discussed in the lectures will be on the exam and you will have designated class time to finish the exam. *There will be NO make-up exam allowed! If a student misses an exam, the student will receive a grade of ZERO for the exam missed.*

- Lecture exam 1 (Chapters 1–3) 100 points
- Lecture exam 2 (Chapters 4 and 5) 100 points
- Lecture exam 3 (Chapters 6 and 7) 100 points
- Lecture exam 4 (Chapters 8–10) 100 points
- Final exam (Chapters 1–11) 100 points

The materials scheduled for each lecture exam by subject to change, this change will be announced in advance if necessary.

LAB EXPERIMENTS: Lab data and calculations will be collected for grading at the end of each lab period (5 pts each). You will be assigned 5 labs to write a full-length report for including an introduction, methods, results, and conclusion section (15 pts each). These will be due at the start of lab the following week. Further instructions on lab report format will be given during lab. There will be no make-up labs for the missed lab; students will receive ZERO for the lab section if missed.

FINAL EXAM: The final exam will cover be comprehensive and cover all chapters discussed during the semester. Chapter 11 will only be covered on the final, and it will have more questions than the other chapters. The final exam will count 100 points and will be 100 multiple choice questions. Only the materials covered in the lectures will be on the exam and you will have designated class time to finish the exam. There will be no make-up for final exams, missed final exam will result in a grade of ZERO.

NOTE: *At the end of the semester, the one exam grade that is the LOWEST will be dropped (Either one of the lecture exam or the final exam). If you have two same exam grades and they are the lowest, ONLY one of them will be dropped at the end of the semester.*

ATTENDANCE: It is important that you attend all lectures and labs in order to do well in this course. If you reach SEVEN absences or miss FOUR classes in a row, I will drop you from the course with a grade of X, F, or U. This is in accordance with the policies set forth in the SPC General Catalog. Attendance will usually be taken during the lecture period, and lab attendance will be determined by the lab sheets submitted at the end of lab experiment. This class information sheet contains the schedule of lectures and labs. If you are unable to finish this course, complete a withdrawal slip at the registrar's office. Absences caused by official South Plains College activities will be excused.

The student maybe administratively withdrawn from the course when absences become excessive as defined in the course syllabus. When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed (not including the lab). It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting. Students who enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the instructor. Instructors are responsible for clearly stating their administrative drop policy in the course syllabus, and it is the student's responsibility to be aware of that policy. It is the student's responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

CLASSROOM CONDUCT: Students are expected to maintain a pleasant learning environment for themselves as well as for their classmates. Therefore, if, in the view of the instructor, a student is disrupting the class, the appropriate disciplinary action may be taken. Failure to comply with lawful direction of a classroom teacher relative to maintaining good order

is considered misconduct on the part of the student. Repeated violations of disrupting a class may result in the student being dropped from the course.

ACADEMIC INTEGRITY: Cheating (as defined in the SPC General Catalog) will not be tolerated. If a student is caught cheating on an exam, a grade of ZERO will be given for that exam and that grade will NOT be dropped as lowest exam grade at the end of semester.

FINAL GRADING: Grading based on percentage:

A = 90 – 100%

B = 80 – 89%

C = 70 – 79%

D = 60 – 69%

F = below 60%

The grade distribution:

Lecture Exam 1: 100 points

Lecture Exam 2: 100 points

Lecture Exam 3: 100 points

Lecture Exam 4: 100 points

Lab Reports: 130 points

Final Exam: 100 points

Total Possible point: 530 points

(One lowest exam grade will be dropped)

DIVERSITY STATEMENT: In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

DISABILITY STATEMENT: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) & Lubbock Center 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

NON-DISCRIMINATION STATEMENT: South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College -1401 College Avenue, Box 5, Levelland, TX 79336, 806-716-2360

Title IX Pregnancy Accommodations Statement: If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To activate accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact Crystal Gilster, Director of Health and Wellness at 806-716-2362 or email cgilster@southplainscollege.edu for assistance.

It is important for you to know that all staff members are mandated reporters of any incidents of sexual misconduct. That means that I cannot keep information about sexual misconduct confidential if you share that information with me. Dr. Lynne Cleavinger, the Director of Health & Wellness, can advise you confidentially as can any counselor in the Health & Wellness Center. They can also help you access other resources on campus and in the local community. You can reach Dr. Cleavinger at 716-2563 or lclevinger@southplainscollege.edu or go by the Health and Wellness Center. You can schedule an appointment with a counselor by calling 716-2529

LAB SAFETY: The chemistry laboratory is a potentially hazardous environment. Therefore, all students must follow all of the safety rules passed out to you during the safety presentation. The students must also follow any specific safety rules listed in the lab manual and any ones that the instructor may announce during a lab period. A student not following the safety rules may be asked to leave the laboratory.

SAFETY RULES: These safety rules will be passed out in lab. The safety rules must be followed. Failure to do so can result in you being asked to leave the laboratory. You will be required to sign a sheet indicating you have read and agreed to follow the safety rules before being allowed to perform an experiment.

COURSE SCHEDULE: *The following table contains the tentative course schedule. All material (including lecture material, experiment material, and material scheduled for the lecture exams) is subject to change. Also, all dates are subject to change. Changes will be announced if necessary.*

Week #	M: Lecture 50 min	T: Lecture 50 min	W: Lab 100 min	R: Lecture 50 min	F: Lab 50 min
1	Introductions	Chapter 1	Lab Safety	Chapter 1	HW Practice
2	Labor Day	Chapter 1	Exp. 1	Chapter 1	HW Practice
3	Chapter 2	Chapter 2	Exp. 2	Chapter 2	HW Practice
4	Chapter 3	Chapter 3	Exp. 3	Chapter 3	HW Practice
5	Chapter 3	Chapter 4	Exam 1 1-3	Chapter 4	HW Practice
6	Chapter 4	Chapter 4	Exp. 4	Chapter 5	HW Practice
7	Chapter 5	Chapter 5	Exp. 5	Chapter 5	HW Practice
8	No Class	Chapter 6	Exam 2 4-5	Chapter 6	HW Practice
9	Chapter 6	Chapter 7	Exp. 6	Chapter 7	HW Practice
10	Chapter 7	Chapter 8	Exam 3 6-7	Chapter 8	HW Practice
11	Chapter 8	Chapter 9	Exp. 7	Chapter 9	HW Practice
12	Chapter 9	Chapter 10	Exp. 8	Chapter 10	HW Practice
13	Chapter 10	Chapter 10	Exp. 9	Chapter 11	Exam 4 8-10
14	Thanksgiving	Thanksgiving	Thanksgiving	Thanksgiving	Thanksgiving
15	Chapter 11	Chapter 11	Exp. 10	Chapter 11	HW Practice
16	F	I	N	A	L

FINAL EXAM SCHEDULE:

Dec 11th, 2019

1:15 pm – 3:45 pm