Course Rubric & Title: Introductory Chemistry II: CHEM 1407

Instructor Name: Lisa Covington

Office Hours: 2:55-3:45

Campus: Palestine

Office Location: Room A204

Instructor E-mail Address: lisa.covington@tvcc.edu

Instructor Office Phone: 903-731-8005

Other/Misc.: lcovington@palestineschools.org

Course Description: Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. A laboratory component is included that gives practical experience to material covered in class. Lab Fee

Course Co- or Pre-Requisites:

Pre-requisite: CHEM 1405 Introductory Chemistry I

Co-requisite: Laboratory for CHEM 1407 Introductory Chemistry

Textbook(s) & ISBN: Please visit the TVCC bookstore online

Required/Recommended Reading(s): Please visit the TVCC bookstore online

Syllabus may be changed during the course of the semester. Please check with your instructor periodically.
Required Materials: Please visit the TVCC bookstore online.

Learning Outcomes: Upon completion of this course, the student should demonstrate a mastery of the following learning outcomes:

1.) Use the gas laws and basics of the Kinetic Molecular Theory to solve gas problems.
2.) State the characteristics of liquids and solids using phase diagrams.
3.) Articulate the importance of intermolecular interactions and predict trends in physical properties.
4.) Identify the characteristics of acids, bases, and salts, and solve problems based on their quantitative relationships.
5.) Identify and balance oxidation-reduction equations.
6.) Determine the rate of a reaction and its dependence on concentration, time, and temperature.
7.) Apply the principles of equilibrium to aqueous systems using LeChatelier’s Principle to predict the effects of concentration, pressure, and temperature changes on equilibrium mixtures.
8.) Discuss the construction and operation of galvanic and electrolytic electrochemical cells, and determine standard and non-standard cell potentials.
9.) Describe basic principles of organic chemistry and descriptive inorganic chemistry.
10.) The student will apply scientific theories to analyze data collected in lab and report results in written form.
11.) Use basic apparatus and apply experimental methodologies used in the chemistry laboratory.
12.) Demonstrate safe and proper handling of laboratory equipment and chemicals.
13.) Conduct basic laboratory experiments with proper laboratory techniques.
14.) Make careful and accurate experimental observations.
15.) Relate physical observations and measurements to theoretical principles.
16.) Interpret laboratory results and experimental data, and reach logical conclusions.

Course Requirements: Due to the requirement hours for college credit, this course is treated as a hybrid, which means students will be expected to spend a minimum of 3 hours in additional study outside of class time. This study will include online reading quizzes, practice problems, online simulations and general research/discussion questions.

Expected Time Requirement for this Course: Approximately five to six hours per week of time spent reading, reviewing, and completing assignments is recommended to complete this course.

Expected Instructor Response Time Mon-Fri: Students should expect responses to student inquiries from the instructor within 24-48 hours Monday-Friday.

Expected Instructor Response Time Sat-Sun and holidays: Students should expect responses to student inquiries within 72 hours if submitted over the weekend or student holiday. If it is over
TRINITY VALLEY COMMUNITY COLLEGE
COURSE SYLLABUS

a larger holiday area, such as Spring/Winter break, students can expect a response on the first
day back to school.

☒ HYBRID AND ONLINE*: Non-Attendance and Financial Aid: If you are receiving financial aid,
federal regulations require you to begin attending the courses for which you are enrolled prior
to receiving a distribution of financial aid. Attendance in an online course is verified by substantial
participation in the course on or before the first Friday of the first week of class. TVCC defines
substantial participation in online courses as logging in to the online course AND completing the
syllabus/start here quiz. NOTE: Logging in to your online course does not warrant “attending”.
For this course, you may also be required to complete [Enter Assignment information here (if
you do not require additional information, please state “nothing else required”] on or before the
first Friday of the first week of the semester in order to be marked as “attending” for purposes
of financial aid. Students documented as “not attending” a course upon the first Friday of the
first week are assumed (for financial aid purposes) to have NOT begun attendance for that
course, negatively affecting their financial aid disbursements.

☐ FACE TO FACE: Non-Attendance and Financial Aid: If you are receiving financial aid, federal
regulations require you to begin attending the courses for which you are enrolled on or before
the census date (e.g., 12th day of each fall and spring semester and 6th day of class each
abbreviated semester). Students documented as “not attending” a course upon the census date
are assumed (for financial aid purposes) to have NOT begun attendance for that course,
negatively affecting their financial aid disbursement.

***PROCTORED TESTING INFORMATION ☒ DOES ☒ DOES NOT APPLY TO THIS COURSE

☐ Proctored Testing Information: Students will take exams in class with the instructor present.
In the event of a quarantine or shut down, students will take exams online, no proctor needed.

• Athens – The Testing Center, located in the Administration Building, is open during regular business hours.
  In the event that the testing center is closed (visit http://www.tvcc.edu/testing/ for scheduled closings),
you can test at the LRC. Please visit the Athens testing site to determine the LRC hours of operation and
closures due to class instruction.

• Palestine – Students are allowed to test at the LRC of the respective satellite campuses. Please visit the
Palestine testing site to determine their hours of operation. NOTE: You MUST arrive at the testing center(s)
at least 1 hour prior to closing so that you COMPLETE your testing before they close.

• Terrell – Students are allowed to test at the A101 computer lab during designated hours. Please visit the
Terrell testing site to determine their hours of operation. NOTE: You MUST arrive at the testing center(s)
at least 1 hour prior to closing so that you COMPLETE your testing before they close.
Outline of Course Schedule: The student should be able to use chemical principles, write balanced equations, and perform simple stoichiometric calculations to the degree necessary to successfully progress to the next chemistry course. The overall purpose of this course is to either prepare the student for more difficult chemistry courses and to prepare the student to successfully use chemistry in their field of study.

At a minimum the following topics will be discussed:

1. Gas Laws
2. Colligative Properties
3. Phase Diagrams
4. Intermolecular Forces
5. Oxidation-Reduction
6. Acid, Base, Salts, pH and pOH
7. Reaction Rates
8. Equilibrium Constant
9. Cell Potentials

Course Requirements: The course requirements will include online homework (25%), a minimum of 3 exams (40%), minimum of 10 lab assignments (25%), and a final exam (10%). Exams will cover 1-2 chapters and the final exam is comprehensive. A course average of 90% is needed for an A, 80% for a B, 70% for a C, 60% for a D. A grade lower than 50% will have earned an F.

Classroom Policies: This class meets every day Monday through Friday for face to face instruction. However, you can expect to spend at least 4 to 8 hours a week in homework and/or independent study. Do not get behind on your reading. Be respectful of me and your classmates.

Attendance: It is important that you attend each class session. I reserve the right as an instructor to drop a student. Late assignments: Generally late assignments will NOT be accepted; however, I will make exceptions depending on the situation.

Cheating/Plagiarism: Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion. “Cheating on a test” shall include:

- Copying from another student’s test paper
- Using test materials not authorized by the person administering the test
- Collaborating with or seeking aid from another student during a test without permission from the test administrator – NOTE: an instructor using non-proctored exams is NOT providing permission to collaborate with or seek aid from another student.
- Knowingly using, buying, selling, stealing, or soliciting, in whole or in part, the contents of an un-administered test
- The unauthorized transporting or removal, in whole or in part, of the contents of the un-administered test

Syllabus may be changed during the course of the semester. Please check with your instructor periodically.
Substituting for another student, or permitting another student to substitute for oneself, to take a test, and
• Bringing another person to obtain an un-administered test or information about an un-administered test.
• Accessing web content or online resources to provide support in answering questions on exams, proctored or not

“Plagiarism” shall be defined as the appropriating, buying, receiving as a gift, or obtaining by any means another’s work and the unacknowledged submission or incorporation of it in one’s own written work.

“Collusion” shall be defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements.

The punishment for cheating or collusion in this class is a failing grade on that particular assignment or dismissal from class. Dismissal will result in a failing grade. The student may receive an F for the entire course (laboratory and lecture) if the misconduct is severe.

Drop Policy: It is your responsibility to drop a course. I may drop a student for nonattendance. I may, at my discretion, drop a student if their behavior is disruptive to the learning environment. A student may withdraw (drop) from a course and receive a grade of “W” at any time during a given semester subject to the last day to receive a “W” deadline specified in the TVCC schedule or catalog

STUDENTS are ENCOURAGED TO CONTACT THEIR INSTRUCTOR BEFORE WITHDRAWING from the course.

Additional Information: Students should develop a backup plan should their computer system or Internet provider fail. Computer or internet connectivity issues are not valid excuses for missing a deadline. The college provides many opportunities for using computer equipment and internet access, as do many public libraries.

Advocacy Information: Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is encouraged to contact the advising office for guidance on how to identify possible resources. Please notify the instructor of your circumstance if you are comfortable doing so.
Affirmative Action: TVCC is an affirmative action/equal opportunity institution which provides educational and employment opportunities on the basis of merit and without discrimination or harassment in full compliance with the Civil Rights Act of 1964, as amended; the Rehabilitation Act of 1973 (Section 503,504); Americans with Disabilities Act, as amended, Title IX of the Educational Amendments of 1972; the Vietnam Era Veterans Assistance Act of 1974; Article 522lk V.A.C.S.; and Executive Orders 11246 and 11758.

American with Disabilities Act (ADA): Trinity Valley Community College provides equal opportunities for academically qualified students with disabilities and ensures access to a wide variety of resources and programs. The passage of Section 504, Federal Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990 requires that the college make certain special arrangements for students with disabilities such as moving classes to accessible locations when necessary, allowing the use of tape recorders, sign language interpreters, or other educational auxiliary aids, making special test arrangements, and other accommodations. The college will make reasonable accommodations for qualified students with a diagnosed physical and/or learning disability who have been admitted to the college and request accommodations.

Students with disabilities who wish to request accommodations should notify the Disability Services Office on their campus. In accordance with federal law, a student requesting accommodations must provide documentation of his/her disability to the Disability Services counselor. For more information, please visit the Disability Service Office on your campus or contact Melinda Berry at 903-675-6224 and email disability@tvcc.edu.

Campus Carry: The College District prohibits the use, possession, or display of a firearm on College District property or at a College District-sponsored or -related activity in violation of law and College District regulations. This policy does not apply to commissioned peace officers in accordance with law. All persons, including license holders, are prohibited from openly carrying a handgun on all College District campuses and premises. License holders may carry a concealed handgun on or about their person while on College District campuses and premises. License holders are responsible for complying with applicable federal and state law and this policy and associated regulations.

Criminal History: TVCC awards some certificates and degrees in which a criminal history MAY disqualify candidates from becoming licensed upon degree/certificate completion. Students with a criminal background enrolling in courses leading to a degree/certificate in criminal justice, cosmetology, nail technician, Heating/Ventilation/Air Conditioning (HVAC), Emergency Medical Technology (EMT), Nurse Aide, Vocational Nursing (VN), Associate Degree Nursing (ADN), Surgical Technology, Patient Care Technology, or Pharmacy Technician program are STRONGLY ENCOURAGED to discuss the licensing regulations with the TVCC program director listed in the
Syllabus may be changed during the course of the semester. Please check with your instructor periodically.

Electronic communication: TVCC students are REQUIRED to use either their TVCC Canvas account or their TVCC email account for all electronic communication. In order to ensure the identity of the student communicating via electronic methods, TVCC faculty will not reply to student communication that is sent through an email account other than their TVCC issued email account or Canvas account.

Logging on to E-Courses: To access your online courses, visit https://ecourses.tvcc.edu. Use your Cardinal ID and Cardinal Password to log in. If you are unsure of your Cardinal ID, visit https://webapps.tvcc.edu/GetIDs1/. TVCC Password guidelines are set as follows:

Lowercase first initial + last four digits of your Social Security number + uppercase last initial + 4 digit year of birth. If your name is Jane Doe, and you were born in the year 1998, and your social security number ends in 1234, your new password would be j1234D1998.

Research Resources: The student is encouraged to use the TVCC Libraries as research resources for this course. Students can search the TVCC Library Resource Center holdings through the online catalog. Electronic library resources provide access to full-text and abstract articles as well as links to a variety of remote research tools. The physical library contains a specialized collection of research materials specifically chosen to support the degrees and courses offered at TVCC. Students with research questions or questions about library services are encouraged to email their question to lrc@tvcc.edu.

Student’s Responsibility: This syllabus contains information, policies, and procedures for a specific course. By enrolling, the student agrees to read, understand, and abide by the rules, policies, regulations, and ethical standards of Trinity Valley Community College as contained in the current catalog and schedule of classes.

Student Evaluation of Courses/Faculty: Evaluation is an important component in promoting continuous improvement, enhancing student learning, and achieving excellence in the educational process. Therefore, TVCC administers student course evaluations every semester. Students are encouraged to complete the course evaluations for all of their courses. Notification of evaluation availability and details on how to access and complete the course evaluation will be delivered to all students through the TVCC email accounts.

When completing the evaluation, students will rate the course by responding to the following prompts:

- The instructor relates the importance of the subject matter to real life.
- The instructor is very knowledgeable of the subject matter.
The instructor encourages questions and discussions from students.
The instructor makes class requirements clear.
The instructor gives class assignments (tests, projects, presentations, etc.) that measure what was covered.
The instructor’s teaching methods are effective in helping me learn.
The instructor expects students to take responsibility for their learning.
The instructor establishes a climate of respect.
The instructor is well organized and prepared for each class.
The instructor is available to me on matters pertaining to the class.
The instructor is reliable in meeting class (leave blank for online courses).
The instructor normally starts class on time (leave blank for online courses).
The instructor has challenged me to think.

Technology Resources/Access: Each student, employee, or guest with an information technology (IT) account shall be responsible for all use of the account. All accounts shall be for use by a single individual – the person for whom the account was approved or assigned. This includes e-Course accounts as well as TVCC issued email accounts. Sharing or loaning accounts is strictly prohibited and violates TVCC Board Policy CT (LOCAL).

Title IX of the Education Amendments: TVCC prohibits discrimination, including sexual harassment and retaliation, against any student on the basis of race, color, religion, gender, national origin, disability, or any other basis prohibited by law. Any student who believes that he or she has experienced prohibited conduct or believes that another student has experienced prohibited conduct should immediately report the alleged acts to an instructor, counselor, administrator, or the Title IX Coordinator.

TVCC has designated the Director of Human Resources/Title IX Coordinator as the individual who is responsible for coordinating its efforts to comply with Title IX of the Education Amendments of 1972, as amended. Contact information is:

- Director of Human Resource/Title IX Coordinator;
- humanresources@tvcc.edu
- Office Phone: 903-675-6215