

PENSACOLA STATE COLLEGE

General Chemistry I – Section Syllabus CHM 1045, Section D9264 Fall 2025, Session A

Instructor: Dr. Domenick Grasso Office: Pensacola Campus, Building 17, 1735 Phone: 850-484-1150 Email: dgrasso@pensacolastate.edu Office Hours: TBD

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Final Exam Date: TBD Last Date of Drop/Add: August 22, 2025 Last Date for Student to Withdraw: November 4, 2025

Course Description: This course is designed for students pursuing careers in the sciences or who need a more rigorous presentation of chemical concepts than is offered in an introductory course. Students will engage in problem solving and critical thinking while applying chemical concepts. Topics will include the principles of chemistry including the atomic theory, electronic and molecular structure, measurement, stoichiometry, bonding, periodicity, thermochemistry, nomenclature, solutions, and the properties of gases.

Class Meeting Time: Online (asynchronous) Class Location: Canvas Semester Hours: 3 credit hours

Corequisites: CHM 1045L

Prerequisites: Appropriate math placement score or completion of MAT 1033 with grade of C or better

Semester Offered: Fall, Spring, Summer

Course Designations: College Transfer. Meets AA General Education Core, Natural Sciences (Physical Sciences) requirement.

General Education Core Course Standard: Per Florida Statute 1007.25, "Natural science courses must afford students the ability to critically examine and evaluate the principles of the scientific method, model construction, and use the scientific method to explain natural experiences and phenomena."

Textbooks and Instructional Materials:

Atoms First 2e; Paul Flowers, et al.; 978-1-947172-647; 2nd; Openstax; 2019

Methods of Evaluation: At minimum, the instructor will cover content which aligns with statewide and institutional learning outcomes for the course. The instructor will measure student performance using the following:

To receive maximum credit you must show all of your work on paper with corresponding units. Numerical answers must have the correct number of significant digits. There will be 14 homework (HW) assignments throughout the course which are worth 10 points each. There will be 5 exams throughout the course which are worth 10 points each. There will be 5 exams throughout the sourse which are worth 10 points each. There will be 5 exams throughout the sourse which are worth 10 points each. There will be 5 exams throughout the sourse which are worth 10 points each.

Grade Point Average:

 $A \geq 90~\%,~B+ \geq 85~\%,~B \geq 80~\%,~C+ \geq 75~\%,~C \geq 70~\%,~D+ \geq 65~\%,~D \geq 60~\%,~F < 60~\%$

Student Expectations: Students enrolled in this course can expect the following:

- 1. Clearly identified course objectives;
- 2. Productive class meetings;
- 3. A positive learning environment;
- 4. Opportunities for appropriate student participation;
- 5. Effective instruction;
- 6. Positive and appropriate interactions;
- 7. Assistance with meeting course objectives during and beyond class hours;
- 8. Evaluation of student performance and appropriate and timely feedback; and
- 9. Clear and well-organized instruction.

Course Learning Outcomes:

- 1. Name and develop formulas for chemical compounds.
- 2. Solve a variety of chemical problems using equations and/or dimensional analysis.
- 3. Read, write, balance and interpret a chemical equation.
- 4. Describe the laws and theories relating to the behavior of gases.
- 5. Discuss energy as it relates to chemical and other processes.
- 6. Understand the laws and theories relating to the structure of the atom and how this relates to the Periodic Table.
- 7. Visualize and draw molecular structures and bonding and utilize the concepts in basic chemical reactions.

General Education Student Learning Outcomes:

Critical Thinking: The student analyzes, evaluates, and, if necessary, challenges the validity of ideas, principles, or data in order to develop informed opinions, probable predictions, or defensible conclusions.

Scientific and Mathematical Literacy: The student properly identifies and applies scientific or mathematical principles and methods.

Information Literacy: The student effectively locates, evaluates, and applies information from a variety of sources.

Academic Dishonesty Statement: Pensacola State College is committed to upholding the highest standards of academic conduct. All forms of academic dishonesty, to include plagiarism and cheating, are prohibited.

Penalties for academic dishonesty include but are not limited to one or more of the following: the awarding of no credit on the assignment, a reduction in the course grade, or the assignment of a final course grade of F and removal from the course. See the *College Catalog* for more details: https://catalog.pensacolastate.edu/content.php?catoid=2&navoid=47#academic-honesty

Student Email Accounts: Pensacola State College provides an institutional email account to all students enrolled in courses for credit. This institutional email account is the official method of communication, and students must use this account when communicating with the College. In cases where companion software is used for a particular class, email may be exchanged between instructor and student using the companion software.

Flexibility: It is the intention of the instructor to accomplish the objectives specified in the course syllabus. However, circumstances may arise which prohibit the fulfilling of this endeavor. Therefore, this syllabus is subject to change. When possible, students will be notified of any change in advance of its occurrence.

ADA Statement: Students with a disability that qualifies under the American with Disabilities Act Amendments Act of 2008 (ADAAA) must self-identify with the Student Resource Center for ADA Services (SRC/ADA). Disabilities covered by the ADAAA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact SRC/ADA if they are not certain whether a medical condition/disability qualifies. SRC/ADA is located on the Pensacola campus in building 6, room 603, <u>ADA-services@pensacolastate.edu</u>, 850-484-1637. Students may also complete the online intake form in the ADA Services app within the PSC apps dashboard.

Equity Statement: Pensacola State College does not discriminate against any person on the basis of race, ethnicity, national origin, color, gender/sex, age, religion, marital status, pregnancy, disability, sexual orientation, gender identity, or genetic information in its educational programs, activities, or employment. For inquiries regarding Title IX and the College's nondiscrimination policies, contact the Dean of Students at (850) 484-1759, Pensacola State College, 1000 College Blvd., Pensacola, Florida 32504.

Security Statement: Pensacola State College is committed to encouraging all members of the College community to be proactive in personal safety measures. In case of emergency, students should ensure that they are aware of the building exit closest to each of their classrooms, as well as all alternative building exits in case circumstances require using a different route.

Emergency Statement: In the case of severe weather or other emergency, the College administration maintains communication with appropriate state and local agencies and makes a determination regarding the cancellation of classes. Notices of cancellation will be made through the College's PSC Alert system and on the College's website.