

Instructor Information

Instructor	Martin Mantz
Email	mantzmj@lamarpa.edu
Phone	(409) 984-6384
Office	Educational I - Room: 112
Office Hours	M&W 11am - 1pm, T&R 10am-1pm or before and after class
Additional Contact Information	

Course Information

Description	Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.
Required Textbooks	<i>Textbook Purchasing Statement: A student attending Lamar State College Port Arthur is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.</i> CHEMISTRY OF HAZARDOUS MATERIALS 7TH EDITION(PEARSON) EUGENE MEYER ISBN#9780135673416
Additional Materials/Resources	EMERGENCY RESPONSE GUIDEBOOK 2024 EDITION MOBILE APP IS ALSO AVAILABLE FOR FREE https://www.phmsa.dot.gov/training/hazmat/erg/erg-mobile-app
Corequisites/Prerequisites	None
Learning Outcomes	1. Define the fundamental properties of matter. 2. Classify matter, compounds, and chemical reactions. 3. Determine the basic nuclear and electronic structure of atoms. 4. Identify trends in chemical and physical properties of the elements using the Periodic Table. 5. Describe the bonding in and the shape of simple molecules and ions. 6. Solve stoichiometric problems. 7. Write chemical formulas. 8. Write and balance equations. 9. Use the rules of nomenclature to name chemical compounds. 10. Define the types and characteristics of chemical reactions. 11. Use the gas laws and basics of the Kinetic Molecular Theory to solve gas problems. 12. Determine the role of energy in physical changes and chemical reactions. 13. Convert units of measure and demonstrate dimensional analysis skill
Program Student Learning Outcomes	*Communication skills: Students will demonstrate effective written, oral and visual communication. *Critical Thinking Skills: Students will engage in creative and/or innovative thinking, and/or inquiry, analysis, evaluation, synthesis of information, organizing concepts and constructing solutions. *Empirical and Quantitative Skills: Students will demonstrate applications of scientific and mathematical concepts. *Teamwork: Students will demonstrate the ability to work effectively with others to support a shared purpose or goal and consider different points of view.
Lecture Topics Outline	Chapter 1: Introduction Chapter 2: Some Features of Matter and Energy Chapter 3: Flammable Gases and Liquids Chapter 4: Chemical Forms of Matter Chapter 5: Principles of Chemical Reactions Chapter 6: Use of DOT Hazardous Materials Regulations by Emergency Responders Chapter 7: Chemistry of Some Common Elements Chapter 8: Chemistry of Some Corrosive Materials Chapter 9: Chemistry of Some Water and Air Reactive Chemicals Chapter 10: Chemistry of Some Toxic Substances Chapter 11: Chemistry of Some Oxidizers Chapter 12: Chemistry of Some Hazardous Organic Compounds part 1 Chapter 13: Chemistry of Some Hazardous Organic Compounds part 2 Chapter 14: Chemistry of Some Polymeric Materials

Major Assignments Schedule	None
Final Exam Date	December 12, 2025 - 12:0 PM
Grading Scale	90 - 100=A 80 - 89=B 70 - 79=C 60 - 69=D Below 59 = F
Determination of Final Grade	Exams (4) 60% Discussions 25% Attendance 10% Assessment 5%

Course Policies

Instructor Policies

1. Any graded work that is not submitted by the due date will NOT be accepted and will result in a zero, with the exception of extenuating circumstances including medical, family, automobile and technology issues. Other circumstances will be considered at the discretion of the instructor. All circumstances will require valid documentation of the issue.
2. Technology issues require a screen shot or picture of the screen taken immediately and sent via email immediately so the issue can be resolved.
3. All assignments must be turned in through Blackboard (BB) in the designated location. Work sent via email will not be accepted unless there is an extenuating circumstance.
4. Any graded work may only be submitted once regardless of the due date. Only this first submission will be graded.
5. Only regular scientific calculators are permitted during exams. All other electronic devices such as cell phones, iPods, headphones, etc. are not allowed.
6. Academic honesty is required and any student found in violation of this policy will not be tolerated. All suspected instances will mandate an entire review of all completed work in the course.

Attendance Policy

Students are expected to log in to Blackboard at least once each day.

Additional Information

This syllabus is subject to change at the discretion of the instructor. Any changes will be communicated in class, via email, or in a course announcement.

Institutional Policies

MyLSCPA

Be sure to check your campus email and Course Homepage using MyLSCPA campus web portal. You can also access your grades, transcripts, academic advisors, degree progress, and other services through [MyLSCPA](#).

Academic Honesty

Academic honesty is expected from all students, and dishonesty in any form will not be tolerated. Please consult the LSCPA policies (Academic Dishonesty section in the Student Handbook) for consequences of academic dishonesty.

ADA Considerations

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the [Disability Services Coordinator](#), Room 117, in the Student Success Center. The phone number is (409) 984-6241.

COVID 19 Information

The Lamar State College Port Arthur (LSCPA) Student Code of Conduct COVID 19 Policy requires students who have been diagnosed with COVID 19 to report their condition directly to their local health department. Students should also contact their course faculty to report their quarantine status. In addition, this policy requires all students to wear face coverings when directly exposed to COVID 19 in compliance with the criteria included in the policy. For more information please refer to the COVID 19 link on the LSCPA website.

Facility Policies

No food or tobacco products are allowed in the classroom. Only students enrolled in the course are allowed in the classroom, except by special instructor permission. Use of electronic devices is prohibited.

HB 2504

This syllabus is part of LSCPA's efforts to comply with Texas House Bill 2504.

Mandatory Reporting of Child Abuse and Neglect

As per Texas law and LSCPA policy, all LSCPA employees, including faculty, are required to report allegations or disclosures of child abuse or neglect to the designated authorities, which may include a local or state law enforcement agency or the Texas Department of Family Protective Services. For more information about mandatory reporting requirements, see [LSCPA's Policy and Procedure Manual](#).

Title IX and Sexual Misconduct

LSCPA is committed to establishing and maintaining an environment that is free from all forms of sex discrimination, including sexual harassment, sexual violence, and other forms of sexual misconduct. All LSCPA employees, including faculty, have the responsibility to report disclosures of sexual misconduct, including sexual harassment, sexual assault (including rape and acquaintance rape), domestic violence,

dating violence, relationship violence, or stalking, to LSCPA's Title IX Coordinator, whose role is to coordinate the college's response to sexual misconduct. For more information about Title IX protections, faculty reporting responsibilities, options for confidential reporting, and the resources available for support visit [LSCPA's Title IX website](#).

Clery Act Crime Reporting

For more information about the Clery Act and crime reporting, see the [Annual Security & Fire Safety Report](#) and the [Campus Security website](#).

Grievance / Complaint / Concern

If you have a grievance, complaint, or concern about this course that has not been resolved through discussion with the Instructor, please consult the Department Chair.

Department Information

General Education and Developmental Studies

Chair: [Sheila Guillot](#)

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