

Instructor Information

Instructor	Javier Chavez
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Phone	(409) 984-6229
Office	Madison Monroe Educational - Room: 228
Office Hours	TDCJ Stiles Unit (M-F 5:00am - 11:00am)
Additional Contact Information	

Course Information

Description	A study of components, applications, and installation of air conditioning systems with capacities of 25 tons or less
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> Modern Refrigeration and Air Conditioning. 21th Edition by Goodheart -Wilcox Althouse /Turnquist/ Bracciano Modern Refrigeration and Air Conditioning 21th Lab Manual and Workbook. Goodheart - Wilcox Althouse /Turnquist/ Bracciano
Additional Materials/Resources	None
Corequisites/Prerequisites	HART-2441 Commercial Air Conditioning
Learning Outcomes	1. Explain and apply medium and low temperature systems operation. 2. Explain and apply ice machine and packaged refrigeration system operation. 3. Explain application and conversion procedures of refrigerants related to specific systems.
Program Student Learning Outcomes	PSLO 3. Performs technician duties safely. PSLO 4. Works effectively as a team member.
Lecture Topics Outline	Describe how each mechanism (condenser, evaporator, and compressor) operates. Discuss the theory and operation of controls devices. Follow approved safety procedures.
Major Assignments Schedule	Week 1 Principles of Cooling and Humidity Control lab. Week 2 Gas fired Heating System Test. Week 3 Packaged Terminal Air Conditioners lab. Week 4 Electric Heating Systems Test. Week 5 Portable Air Conditioners lab. Week 6 Troubleshooting Commercial Systems Test. Week 7 Comfort Cooling Controls lab. Week 8 Commercial Refrigeration Component Test. Week 9 Ductless Split System lab. Week 10 Servicing Commercial Systems Test. Week 11 Variable Refrigeration Flow lab. Week 12 Forced-Air Heating Fundamentals Test. Week 13 Servicing and Installing Humidifiers lab. Week 14 Heating and Cooling Loads Test. Week 15 Calculating Heat Leakage lab. Week 16 Chapter 40 Heat Pumps Test.
Final Exam Date	January 17, 2025 - 5:00 AM Through May 12, 2025 - 8:00 AM
Grading Scale	90 - 100=A 80 - 89=B 70 - 79=C 60 - 69=D Below 59 = F
Determination of Final Grade	Tests- 40%, Quizzes- 25%, Labs 25%, Final Exam- 10%

Course Policies

Instructor Policies	1. Students must have close toed shoes. 2. No eating are drinking in class room 3. Students are graded on participation, if a student is absent he/she can not get participation grade there for will result in a 0 for that class period. 4. Customers will expect Techs to act professional and talk professional. Cursing and profanity will not be allowed in class.
Attendance Policy	Research has shown a cause and effect relationship between attendance and college success. Missing a day of lecture can possible cause you to drop a letter grade on tests. 1. Tardiness: Tardiness (more than 5mins), for lectures or labs, 2 Tardies will count as an Absence. 2. Absences: NOTE: Excused absences (verifiable) are only allowed for, an illness that requires a hospital stay or a death in your immediate family, excluding aunts, uncles, cousins, nieces and nephews. 5 absences=drop 1 letter grade, 7 absences=drop 2 letter grades, 9-absences=drop 3 letter grades, 11 absences=F 3. A student with Perfect attendance will receive 15 bonus points added to your test points total at the end of the semester.
Additional Information	

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
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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	Inmate Instruction Chair: Sheila Guillot Email: guillsr@lamarpa.edu Phone: (409) 984-6381