



**Course:** Acoustic Music IET  
**Site:** Lamar State College Port Arthur  
**Location:** PAC 137  
**Time:** TR 9:30-10:45

**Instructor:** James Chavis  
**Phone:** 409-951-1759  
**Email:** [jchavis@esc5.net](mailto:jchavis@esc5.net)

**Course Information:** This service is provided free of charge by the Adult Education and Literacy Department of Region 5 Education Service Center. The program of study will provide remediation services in the area of mathematics for the Acoustic Music course provided by Lamar State College Port Arthur. All tuition and fees for this course are to be paid to Lamar State College Port Arthur.

**Course Objectives:** As participants in this course, learners will be able to calculate the following:

- fractions
- decimals
- add, subtract, multiply and divide negative numbers
- percentages
- area and perimeter of geometric shapes
- exponents
- absolute value
- proportions
- square roots
- logarithms
- exponential growth and decay
- radical expressions
- quadratic and linear functions
- solve literal equations
- systems of equations

Learners will accomplish the educational and career goals outlined in their Individual Training, Education and Career Plan (ITEC Plan).

**Curriculum:**

Remediation services will be incorporated into the course curriculum. Students will participate in a minimum of 15 contact hours of remediation and a minimum of 15 contact hours of training. Training hours will consist of hands on learning activities provided by Lamar State College Port Arthur.

**Certificate/Degree:** Learners participating in the Acoustic Music course are preparing for an Associate's Degree in Applied Arts & Science.

**Major Units of Study:** Contextualized AEL instruction will be integrated into the following course of study:

Week 1: Introduction to the course; Syllabus review

Week 2: The fundamental properties of sound of sound; Listening in class assignment

Week 3: The fundamental properties of sound of sound; Vocabulary Quiz 1

Week 4: The Fundamental Properties of Sound of sound; Vocabulary Quiz 2

Week 5: Modes and Harmonics; Test 1

Week 6: Sound Levels and the Decibel; Vocabulary Quiz 3

Week 7: Sound Levels and Electrical Signals; Measurement of Sound Levels and Electrical Signals; Vocabulary Quiz 4

Week 8: Sound in a Free Field; Vocabulary Quiz 5

Week 9: Midterm (Test 2); Signals, speech, music, and noise

Week 10: Room Acoustics; Vocabulary Quiz 6

Week 11: Room Acoustics Part 2; Vocabulary Quiz 7

Week 12: Sound Isolation; Vocabulary Quiz 8

Week 13; Small Room Acoustics and Sound Isolation; Test 3

Week 14: Medium Room Acoustics and Sound Isolation; Vocabulary Quiz 9; Test 4

A copy of the syllabus can also be found at this link [esc5.net/adulted](http://esc5.net/adulted)

**Course Expectations:** Each class will require hands-on, interactive learning from start to finish. Learners should come ready to participate. (other, as applicable)

**Attendance Policy:** Students are required to follow the attendance policy of Lamar State College Port Arthur as well complete at least 15 direct contact hours and a minimum of 15 hours of training.

**Evaluation:** Pre and post tests will be given to learners according to TWC AEL guidelines.

**Materials Needed:** Master Handbook of Acoustics Publisher: McGraw-Hill Education TAB; 6 edition (December 8, 2014) ISBN-10: 0071841040 ISBN-13: 978-0071841047

Learners will need to bring a tablet for notetaking and completing activities. For distance learning, participants will need to provide their own cell phone or laptop computer.

**Course Calendar:** Our fiscal year begins on July 1, 2018 and ends on June 30, 2019. Class holidays include July 4 (Independence Day), September 3 (Labor Day), November 19-23 (Thanksgiving), December 24-January 4 (Christmas), March 11-15 (Spring Break), and May 27 (Memorial Day). Please note that calendar adjustments are necessary throughout the program year. These adjustments will be announced in class and via Remind.

### **Additional Resources**

- Region 5 ESC Adult Education website: ([www.esc5.net/page/AE\\_Home](http://www.esc5.net/page/AE_Home))
- Workforce Center(Beaumont) 409-839-8045 ([setworks.org](http://setworks.org))
- Workforce Center (Port Arthur) 409-962-1236 ([setworks.org](http://setworks.org))
- Workforce Center (Orange) 409-882-0302 ([setworks.org](http://setworks.org))
- Career Navigator(Danielle Grundy) 409-951-1759 or [dgrundy@esc5.net](mailto:dgrundy@esc5.net)
- Math Help Line (1-888-295-3916) or ([www.studentnest.com](http://www.studentnest.com))
- Jobs for America's Graduates-JAG (Casi Rekieta) [crekieta@esc5.net](mailto:crekieta@esc5.net)

- A comprehensive list of local community organizations that provide individual or family support services may be found at ([www.esc5.net/adulted](http://www.esc5.net/adulted)), or a printed document will be provided upon student request.



The Adult Education and Literacy Department of Region V Education Service Center operates under a grant from the Texas Workforce Commission. Information about local TWC resources can be found at <https://setworks.org>.