

Course Syllabus

MUSC 1400 (4:3:4)

Sound System Design and Installation

Live Sound/Sound Reinforcement Certificate

Sound Technology Program

Technical Education Division

Levelland Campus

South Plains College

Creative Arts Department - South Plains College - Levelland Campus

Course Syllabus

Course Title: *MUSC 1400 Sound System Design and Installation (4:3:4)*

Instructor: *Jeremiah Denning*

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Office Hours: *As posted on instructor's door*

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I. General Course Information:

- A. Description: Design and installation of portable and permanent audio systems. Includes industry-standard design/modeling software and industry-standard control software. Also covers digital signal processing (DSP), systems networking, and multimedia component integration.
- B. Course Learning Outcomes: Design a professional sound reinforcement system; describe sound system installation techniques; document system design and installation; demonstrate system and room modeling techniques with industry-standard prediction software; and produce a budget and schedule.
- C. Course Competencies: Understanding of acoustical factors affecting loudspeaker systems in a system design. Ability to predict system performance with software applications. Ability to manage a system design and installation project. Evaluate a customer's needs.
- D. Academic Integrity: It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension. Students should refer to the SPC General Catalog, pg.22-23, regarding consequences for cheating and plagiarism (see "Academic Integrity" as well as "Student Conduct" sections).
- E. SCANS: This course is designed to meet the following SCANS and Foundation skills criteria: C1, C2, C3, C4, C6, C7, C8, C9, C11, C12, C13, C15, C17, C18, C19, C20, F1, F2, F3, F4, F6, F8, F9, F13, F15, F16, and F17. A complete list of SCANS Competencies and Foundation Skills are located on the last page of the syllabus.
- F. Verification: This course is a building block for the student to move towards and complete a capstone experience.

II. **Specific Course/Instructor Requirements:**

- A. Textbook and Other Materials: Sound Systems: Design and Optimization 2nd Edition. One 4GB Flash Drive.
- B. Attendance Policy: Punctual and regular attendance is required of all students. Missing four consecutive classes or having a total of five absences *may* result in an instructor-initiated withdrawal. Students are responsible for all missed material. If a student is absent on a day that a test or presentation is given, **he or she will not be allowed to make up the test unless arrangements are made prior to the test day**. Any student not present at roll taking will be counted absent unless prior arrangements have been made.
- C. Assignment Policy: Projects and reading assignments will be announced at least one class meeting prior to responsibility for material.
- D. Grading Policy/Procedure: At least two written tests (20%), lab assignment (20%), a daily quiz average(10%), and a sound system design proposal and presentation (50%) will average to equal the final grade. Grading format: A= 90-100%, B= 80-89%, C= 70-79%, D= 60-69%, F= 0-59%
- E. Special Requirements: MUSC 1405 is a prerequisite/co requisite. Students will be responsible for arranged lab activities and field trips to observe examples of sound system installations.

III. **Course Outline:**

Topic Outline:

Loudspeakers and acoustical factors
Preparation for site visit
Site visit
Test
Sound system electronics
Prediction Software
Test
Wiring and Installation considerations
Project data management & Final Project
System design presentation (final test)

Instructor reserves the right to modify this at anytime.

IV. **Accommodations**

Diversity Statement In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

Disability Statement Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Special Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Special Services Coordinator. For more information, call or visit the Special Services Office in the Student Services building, 894-9611 ext. 2529.