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

Fall 2023/Spring 2024

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:*

MUSC 1400 Sound System Design and Installation will be taught as a Flex course. We will be meeting face to face for lecture/lab time. This will be supplemented with several online learning tools including, lecture notes, and video demonstrations.

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 customers 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, 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 3rd Edition.

B. Attendance Policy: Punctual and regular attendance is expected of all students. Students are responsible for all missed material. If a student is absent on a day that an assignment/assessment is given, **the student will not be allowed to make up the assignment/assessment unless the absence is an excused absence.** Passwords for the assignment/assessments will not be given if the absence is unexcused. For an absence to qualify as excused the student must contact the instructor via email prior to the class meeting and provide their reason for not attending. Based on the reason given by the student, the instructor will determine if the absence qualifies as excused or unexcused. Any student not present at roll taking will be given an unexcused absence unless the student has provided prior notification. There will be a daily attendance grade that will average and count as 20% of your final grade. Tardiness and unexcused absences will result in a 0 for the daily attendance grade. Attendance will be taken at the beginning of class.

C. Assignment/Assessment Policy: Assignments/assessments will be announced during class. Students will be given a password to access the assignment/assessment via Blackboard. Due dates will be provided.

D. Grading Policy/Procedure: At least two written tests (20%), lab assignment (10%), a quiz average (10%), attendance (20%), and a sound system design proposal and presentation (40%) 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*

https://www.southplainscollege.edu/syllabusstatements/