

**Florida Department of Education
Curriculum Framework**

Program Title: Audio Technology
Career Cluster: Arts A/V Technology and Communication

CCC	
CIP Number	0650060209
Program Type	College Credit Certificate (CCC)
Program Length	15 credit hours
CTSO	SkillsUSA
SOC Codes (all applicable)	27-4011 – Audio and Video Equipment Technicians
Targeted Occupation List	http://www.labormarketinfo.com/wec/TargetOccupationList.htm
Perkins Technical Skill Attainment Inventory	http://www.fldoe.org/workforce/perkins/perkins_resources.asp
Statewide Articulation	http://www.fldoe.org/workforce/dwdframe/artic_frame.asp

Purpose

The purpose of this program is to prepare students for initial employment as a sound technician or recording technician, or to provide supplemental training for persons previously or currently employed in these occupations. The content includes, but is not limited to, set up and configuration of a computer for audio applications, and the operation of basic reproduction, reinforcement and recording audio equipment.

This certificate program is part of the Music Production Technology AS degree program (1650091300).

A College Credit Certificate consists of a program of instruction of less than sixty (60) credits of college-level courses, which is part of an AS or AAS degree program and prepares students for entry into employment (Rule 6A-14.030, F.A.C.).

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Arts A/V Technology and Communication career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Arts A/V Technology and Communication career cluster. **Additional Information** relevant to this Career and Technical Education (CTE) program is provided at the end of this document.

Standards

After successfully completing this program, the student will be able to perform the following:

- 01.0 Demonstrate set-up and configuration of a computer for audio applications.
- 02.0 Understand the operation of basic reproduction, reinforcement and recording audio equipment.
- 07.0 Demonstrate understanding of requirements for set up and operation of a sound reinforcement system.

**Florida Department of Education
Student Performance Standards**

Program Title: Audio Technology
CIP Number: 0650060209
Program Length: 15 credit hours
SOC Code(s): 27-4011

This certificate program is part of the Music Production Technology AS degree program (1650091300). At the completion of this program, the student will be able to:

01.0 Demonstrate set-up and configuration of a computer for audio applications--The student will be able to:

01.01 Install and configure software related to audio programs.

01.02 Demonstrate basic knowledge of computer system requirements.

01.03 Install basic peripheral devices related to audio programs.

02.0 Understand the operation of basic reproduction, reinforcement and recording audio equipment--The student will be able to:

02.01 Assess the audio technology needs of a music production (Pre-Production).

02.02 Evaluate available audio resources.

02.03 Select and configure appropriate hardware and software.

02.04 Formulate strategies for producing multi-track recording.

02.05 Evaluate production needs for microphone applications.

02.06 Demonstrate proficiency with multi-track, multi-channeled mixing consoles.

02.07 Formulate strategies for electronic editing.

02.08 Configure audio recording systems for optimal and appropriate use of signal processing equipment.

02.09 Engineer a recording session and prepare appropriate documentation.

02.10 Mix multi-track recording.

02.11 Configure audio equipment for optimal musical mix.

02.12	Create a mixing plan.
02.13	Evaluate the quality of multi-track recording.
02.14	Interpret audio needs for end user.
02.15	Supervise equipment operator.
02.16	Evaluate quality of the final mix to industry standards.
03.0	Demonstrate understanding of requirements for set up and operation of a sound reinforcement system—The student will be able to:
07.01	Demonstrate basic understanding of audio electronics (head room, biasing, distortion, equalization, frequency response, etc.).
07.02	Demonstrate basic understanding of acoustics.
07.03	Demonstrate knowledge of principles of operation of analog/digital devices (block diagram).
07.04	Demonstrate basic understanding of audio signal flow in an analog or digital chain.
07.05	Formulate strategies for audio reinforcement of music productions.
07.06	Evaluate performance needs.
07.07	Evaluate technical needs as appropriate to given spaces.
07.08	Configure a sound reinforcement system to meet performance needs.
07.09	Analyze various audio qualities to achieve proper sound mix.
07.10	Perform transactions with audio suppliers.
07.11	Design a plot for proper microphone and speaker selection and placement.

Additional Information

Laboratory Activities

Laboratory activities are an integral part of this program. These activities include instruction in the use of safety procedures, tools, equipment, materials, and processes related to these occupations. Equipment and supplies should be provided to enhance hands-on experiences for students.

Special Notes

Career and Technical Student Organization (CTSO)

SkillsUSA is the appropriate career and technical student organization for providing leadership training and reinforcing specific career and technical skills. Career and Technical Student Organizations provide activities for students as an integral part of the instruction offered. The activities of such organizations are defined as part of the curriculum in accordance with Rule 6A-6.065, F.A.C.

Accommodations

Federal and state legislation requires the provision of accommodations for students with disabilities as identified on the secondary student's Individual Educational Plan (IEP) or 504 plan or postsecondary student's accommodations' plan to meet individual needs and ensure equal access. Postsecondary students with disabilities must self-identify, present documentation, request accommodations if needed, and develop a plan with their counselor and/or instructors. Accommodations received in postsecondary education may differ from those received in secondary education. Accommodations change the way the student is instructed. Students with disabilities may need accommodations in such areas as instructional methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology and special communication systems. Documentation of the accommodations requested and provided should be maintained in a confidential file.

Articulation

For details on articulation agreements which correlate to programs and industry certifications refer to http://www.fldoe.org/workforce/dwdframe/artic_frame.asp.

