

**Florida Department of Education  
Student Performance Standards**

**Course Title:** Digital Audio Production 1  
**Course Number:** 8772310  
**Course Credit:** 1

**Course Description:**

The course provides competencies in operating audio consoles, production writing, news writing, and voice over and on-air skills.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
 NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA.*

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
04.0 Demonstrate knowledge of school and class procedures--The student will be able to:		SC.912.N.1.1; SC.912.P.10.5; SC.912.P.10.16; SC.912.P.10.13; SC.912.P.10.17; SC.912.P.10.18; SC.912.P.10.21; SC.912.P.12.2
04.01 Verbalize the rules and operation of school and class.		
04.02 State the nature of the instruction.		
04.03 Identify what will be learned in relation to stated goals and job opportunities that exist.		
05.0 Demonstrate an ability to operate an audio console--The student will be able to:		SC.912.P.10.21
05.01 Demonstrate an ability to control the audio console during the recording of a show or program. Combine all the sound elements on to tape, compact disc or broadcast.		
05.02 Route outside organizations through the audio console or computer.		
05.03 Demonstrate application of appropriate recording mix while adjusting audio levels.		
05.04 Demonstrate the ability to keep program on time according to the production plan.		

<b>CTE Standards and Benchmarks</b>		<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
05.05	Perform to high standards in the role of audio console operator in varied format situations.		
05.06	Demonstrate knowledge of the audio console signal flow.		
06.0	Demonstrate a knowledge of production writing--The student will be able to:		
06.01	Explain the job of a copywriter and outline the elements of good copy and copy writing.		
06.02	Demonstrate ability to write commercial copy in its various forms.		
06.03	Demonstrate ability to write a production plan for a show.		
06.04	Demonstrate ability to write lyrics for a song or jingle.		
06.05	Demonstrate ability to write show intros, outros and bumpers.		
07.0	Demonstrate news-writing skills--The student will be able to:		
07.01	Differentiate between news, commentary, and editorials.		
07.02	Demonstrate ability to mark, edit, and present news in an acceptable manner.		
07.03	Explain the various sources of news and how they are used.		
07.04	List the elements that constitute news materials and evaluate them.		
07.05	Demonstrate ability to write news stories in broadcast style.		
08.0	Demonstrate appropriate voice-over skills--The student will be able to:		
08.01	Demonstrate the ability to read aloud in a professional broadcast manner.		
08.02	Modify their reading speed as required to properly complete their assignment in the available time.		
08.03	Demonstrate the ability to receive and properly act upon direction given by the commercial producer.		
08.04	Understand the concept of voice acting and playing a role while speaking.		
08.05	Perform the various assignments in a professional manner according to industry standards.		
09.0	Demonstrate appropriate on-air skills--The student will be able to:		
09.01	State the characteristics of various microphones and demonstrate the ability to use them.		

<b>CTE Standards and Benchmarks</b>		<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
09.02	Handle outside organizations through the console.		
09.03	Demonstrate how to handle changes in show format during a recording or live broadcast.		
09.04	Perform the various assignments in a professional manner according to industry standards.		
09.05	List the elements and procedures of log keeping.		
10.0	Demonstrate appropriate broadcast speaking manner--The student will be able to:		
10.01	Identify and correct verbal deficiencies in themselves and others.		
10.02	Demonstrate ability to breathe properly, control their voice relating to projection, loudness, and resonance, and vary tone, pitch and pacing.		
10.03	Articulate and pronounce words according to accepted standards.		
10.04	Read aloud in a professional broadcast manner.		
10.05	Outline the qualifications and requirements of an announcer.		
10.06	Demonstrate development of the skills of announcing, the various techniques of delivery and procedures according to accepted standards.		
11.0	Demonstrate mathematics knowledge and skills--The students will be able to:	MAFS.912.S-IC.2	
11.01	Demonstrate knowledge of arithmetic operations.		
11.02	Analyze and apply data and measurements to solve problems and interpret documents.		
11.03	Construct charts/tables/graphs using functions and data.		

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**Course Title:** Digital Audio Production 2  
**Course Number:** 8772320  
**Course Credit:** 1

**Course Description:**

This course provides competencies in set-up and configuration of a computer for audio applications and operation of audio equipment.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
 NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA.*

<b>CTE Standards and Benchmarks</b>		<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
12.0	Demonstrate set-up and configuration of a computer for audio applications--The student will be able to:		SC.912.N.1.1; SC.912.L.17.15; SC.912.P.10.20; SC.912.P.10.21
12.01	Install basic peripheral devices related to audio programs.		
12.02	Install and configure software related to audio programs.		
12.03	Demonstrate basic knowledge of computer system requirements.		
12.04	Demonstrate basic knowledge of installing plug-ins or additional audio source material such as beats and or samples.		
12.05	Understand the signal flow of a digital audio workstation.		
13.0	Understand the operation of basic reproduction, reinforcement and recording audio equipment--The student will be able to:		SC.912.N.1.1
13.01	Assess the audio technology needs of a music production (pre-production).		
13.02	Evaluate available audio resources.		
13.03	Select and configure appropriate hardware and software.		
14.0	Demonstrate understanding of requirements for set up and operation of a sound reinforcement		SC.912.N.1.1;

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
system--The student will be able to:		SC.912.N.1.4; SC.912.N.1.5; SC.912.N.1.7; SC.912.N.2.5; SC.912.P.10.20; SC.912.P.10.21
14.01 Demonstrate basic understanding of audio electronics (head room, biasing, distortion, equalization, frequency response, etc.).		
14.02 Demonstrate basic understanding of acoustics.		
14.03 Demonstrate knowledge of principles of operation of analog/digital devices (block diagram).		
14.04 Demonstrate basic understanding of audio signal flow in an analog or digital chain.		
14.05 Formulate strategies for audio reinforcement of music productions.		
14.06 Evaluate performance needs.		
14.07 Evaluate technical needs as appropriate to given spaces.		
14.08 Configure a sound reinforcement system to meet performance needs.		
14.09 Analyze various audio qualities to achieve proper sound mix.		
14.10 Perform transactions with audio suppliers.		
14.11 Design a plot for proper microphone and speaker selection and placement.		
14.12 Evaluate the quality of multi-track recording.		
14.13 Interpret audio needs for end user.		
14.14 Supervise equipment operator.		
14.15 Evaluate quality of the final mix to industry standards.		

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**Course Title:** Digital Audio Production 3  
**Course Number:** 8772330  
**Course Credit:** 1

**Course Description:**

This course covers competencies in digital audio production.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts

NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA.*

CTE Standards and Benchmarks		FS-M/LA	NGSSS-Sci
18.0	Demonstrate application of control protocols and their relationship to equipment used in the music industry--The student will be able to:		SC.912.N.1.1
18.01	Demonstrate an understanding of MIDI.		
18.02	Utilize a computer and multiple MIDI instruments.		
18.03	Record a single sound track; add multiple sound tracks, and change MIDI voices using the software.		
19.0	Demonstrate basic operation of a digital audio workstation--The student will be able to:		SC.912.N.1.1; SC.912.P.10.20; SC.912.P.10.21
19.01	Demonstrate knowledge of the digital audio workstation interface.		
19.02	Create and arrange a multi-track project.		
19.03	Create interest and effect using editing techniques		
19.04	Design and edit audio using a waveform editor.		
19.05	Record audio directly to the digital audio workstation.		
19.06	Demonstrate knowledge of mixing audio.		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
19.07 Demonstrate skill in using audio effects and plug-ins.		
19.08 Prepare an audio project for finishing and final mix down.		
19.09 Transfer audio files between various audio software applications.		
19.10 Record finished audio to tape or compact disc and or publish to a webpage.		
20.0 Demonstrate basic digital production skills--The student will be able to:		SC.912.N.1.1
20.01 Demonstrate understanding of digital audio storage concepts and digital storage media.		
20.02 Demonstrate knowledge of and the ability to operate digital recording decks, and other digital storage devices.		
20.03 Demonstrate a working familiarity and understanding of the function and operation of digital audio workstations.		
20.04 Demonstrate ability to edit, cut, erase, and insert sound utilizing various digital production techniques.		

**Florida Department of Education  
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**Course Title:** Digital Audio Production 4  
**Course Number:** 8772340  
**Course Credit:** 1

**Course Description:**

This course provides competencies in the operation of basic reproduction, reinforcement and recording audio equipment.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
 NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA.*

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
13.0 Understand the operation of basic reproduction, reinforcement and recording audio equipment- -The student will be able to:		SC.912.N.1.1; SC.912.P.10.21
13.04 Formulate strategies for producing multi-track recording.		
13.05 Evaluate production needs for microphone applications.		
13.06 Demonstrate proficiency with multi-track, multi-channeled mixing consoles.		
13.07 Formulate strategies for electronic editing.		
13.08 Configure audio recording systems for optimal and appropriate use of signal processing equipment.		
13.09 Engineer a recording session and prepare appropriate documentation.		
13.10 Mix multi-track recording.		
13.11 Configure audio equipment for optimal musical mix.		
13.12 Create a mixing plan.		
13.13 Evaluate the quality of multi-track recording.		
13.14 Interpret audio needs for end user.		



<b>CTE Standards and Benchmarks</b>	<b>FS-M/LA</b>	<b>NGSS-Sci</b>
13.15 Supervise equipment operator.		

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**Course Title:** Digital Audio Production 5  
**Course Number:** 8772350  
**Course Credit:** 1

**Course Description:**

This course provides competencies in application of control protocols and their relationship to equipment used in the music industry and advanced digital production skills.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA.*

CTE Standards and Benchmarks		FS-M/LA	NGSSS-Sci
18.0	Demonstrate application of control protocols and their relationship to equipment used in the music industry--The student will be able to:		SC.912.N.1.1; SC.912.P.10.21
18.04	Demonstrate proficiency in using MIDI instruments to record sounds using a digital sampler.		
18.05	Demonstrate an understanding of MIDI and other control protocol in the recording studio.		
18.06	Configure MIDI and other show control devices in the studio or live environment.		
18.07	Troubleshoot MIDI and control communication problems.		
21.0	Demonstrate advanced digital production skills--The student will be able to:		SC.912.N.1.1
21.01	Demonstrate knowledge of and the ability to perform digital transfers of audio information between digital and analog production environments.		
21.02	Demonstrate a working familiarity and understanding of the function and operation of multi-track digital audio workstations.		
21.03	Demonstrate an ability to edit, cut, erase, and insert sound utilizing various digital production techniques in the multi-track digital environment.		

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**Course Title:** Digital Audio Production 6  
**Course Number:** 8772360  
**Course Credit:** 1

**Course Description:**

This course provides competencies in advanced digital production skills and music industry supplier transactions.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
 NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA.*

<b>CTE Standards and Benchmarks</b>		<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
21.0	Demonstrate advanced digital production skills--The student will be able to:		SC.912.N.1.1
21.04	Demonstrate knowledge and ability to connect the hardware for a digital audio workstation, an audio console, various recording equipment together using proper signal flow techniques, cables and connectors.		
21.05	Demonstrate knowledge and ability to record, edit and encode a surround sound digital mix for use on DVD or SACD.		
21.06	Demonstrate knowledge and ability to encode audio for use on the web, digital distribution, use in video and animation.		
21.07	Demonstrate knowledge and ability to create album cover art for CD and web distribution.		
21.08	Demonstrate knowledge and ability to create a blog page to post Internet broadcast.		
21.09	Demonstrate understanding of RSS feeds to be used to distribute digital content to Internet subscribers and to build and audience.		
21.10	Formulate a marketing strategy for internet broadcast, independent CD release, or internet distribution.		
22.0	Perform transactions with music industry suppliers--The student will be able to:		
22.01	Research sources for needed equipment, supplies and educational materials.		

<b>CTE Standards and Benchmarks</b>	<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
22.02 Differentiate the levels of quality in the hierarchy of manufacturers, distributors and suppliers.		
22.03 Evaluate purchasing agreements including bids, warranties, and maintenance contracts.		
22.04 Evaluate the technical specifications of audio related products.		
22.05 Execute the purchase of audio equipment, supplies and educational materials.		

**Florida Department of Education  
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**Course Title:** Digital Audio Production 7  
**Course Number:** 8772370  
**Course Credit:** 1

**Course Description:**

This course provides competencies in planning, coordinating and managing an audio broadcast or album, as well as legal copyright issues.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
 NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA.*

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
23.0 Plan, coordinate and manage an audio broadcast or album--The student will be able to:		SC.912.N.1.1
23.01 Define the program format and market demographics.		
23.02 Present a project proposal with script or lyrics.		
23.03 Develop a production schedule.		
23.04 Create a plan to acquire all needed production resources and talent.		
23.05 Manage crew and staff during pre-production and production.		
23.06 Determine post-production requirements.		
23.07 Determine post-production activities.		
23.08 Conduct client approval reviews of project.		
23.09 Archive and manage finished assets and originals.		
23.10 Oversee broadcast/internet distribution or physical distribution to market.		
23.11 Explain various techniques for program or segments promotion.		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
24.0 Demonstrate knowledge of legal issues of copyright--The student will be able to:		SC.912.N.1.1
24.01 Define all Federal Communications Commission regulations pertaining to the broadcasting industry.		
24.02 Define the laws and regulations pertaining to the ownership and control of media assets, license allocation, measurement and records, political broadcasts and lottery laws.		
24.03 Define the laws and practices underlying rights, releases and permits.		
24.04 Define the laws and practices underlying slander, libel, free speech and “truth in advertising” issues.		
24.05 Define the laws and practices underlying indecent programming, obscenity and censorship issues.		
24.06 Define the laws and practices underlying contract, labor issues, copyright and insurance/liability issues.		