

FOUNDATION X ACADEMY (FXA)

Career & Technical Education (CTE) Alignment Document

Program Title:

Foundation X Academy – Audio Engineering & Music Production Program

Program Overview

Foundation X Academy (FXA) is a comprehensive, online audio engineering and music production program designed to provide students with **industry-relevant technical skills, creative development, and career pathway preparation** in the field of digital media and audio production.

The program delivers a **structured, standards-based curriculum** covering foundational theory, technical application, and real-world production workflows using industry-standard tools and methodologies.

FXA is designed for **middle school, high school, and workforce development programs**, and can be implemented as a **CTE pathway course, elective, or supplemental program**.

CTE Career Cluster Alignment

Primary Career Cluster:

- Arts, A/V Technology & Communications

Aligned Pathways:

- Audio/Video Technology & Film
- Digital Media Production
- Recording Arts & Sound Engineering
- Media Technology & Broadcasting

Program Structure

- **Total Curriculum:** 20 Core Instructional Chapters
- **Supplemental Modules:** FXA 101, 201, 301, 401 (video-based learning tracks)

- **Delivery Format:** 100% Online (self-paced or instructor-led)
- **Assessment Components:**
 - Chapter Quizzes
 - Midterm Examination
 - Final Examination
 - Capstone Project (Audio Production Submission)

Core Competency Areas

Students completing FXA will develop competencies in the following areas:

1. Audio Fundamentals

- Sound theory and human hearing
- Frequency, amplitude, and waveform analysis
- Signal flow and audio routing

2. Digital Audio Workstations (DAWs)

- Introduction to Pro Tools (industry-standard software)
- Session setup and workflow management
- Editing, arrangement, and session organization

3. Recording Techniques

- Microphone types and placement
- Vocal and instrument tracking
- Gain staging and signal integrity

4. Mixing & Processing

- Equalization (EQ)
- Compression and dynamics processing
- Time-based effects (reverb, delay)
- Stereo imaging and balance

5. Mastering Fundamentals

- Loudness optimization

- Final mix preparation
- Exporting for streaming and distribution

6. MIDI & Music Production

- MIDI sequencing and virtual instruments
- Beat production and arrangement
- Song structure and composition basics

7. Critical Listening & Analysis

- Identifying frequency ranges
- Mix evaluation techniques
- Audio troubleshooting

8. Audio for Media

- Film and television audio basics
- Dialogue editing and post-production
- Sync and licensing awareness

Industry Skills Development

Students will gain real-world, transferable skills including:

- Technical proficiency with audio software
- Problem-solving in production environments
- Creative decision-making
- Project-based workflow execution
- Digital file management and organization
- Collaboration and communication in creative settings

Career Pathways & Opportunities

FXA prepares students for entry-level pathways and continued education in:

- Audio Engineering
- Music Production
- Recording Studio Operations
- Live Sound Engineering

- Film & Television Post-Production
- Podcast Production
- Digital Content Creation

Instructional Support for Schools

FXA is designed to be **fully instructor-supported**, requiring **no prior audio engineering experience** from educators.

Included:

- Structured lesson plans
- Pre-recorded instructional videos
- Built-in quizzes and assessments
- Answer keys and grading guidance
- Student progress tracking framework

Technology Requirements

- Internet-enabled device (Chromebook, laptop, or desktop)
- Headphones or speakers
- No specialized lab or hardware required

(Optional: Enhanced experience with microphones and audio interfaces)

Assessment & Evaluation

Student progress is measured through:

- Chapter-level quizzes
- Midterm assessment
- Final examination
- Capstone audio project submission

Certification

Upon successful completion, students receive:

Foundation X Academy Certification

“Audio Engineering & Music Production Fundamentals”

This certification validates:

- Technical knowledge
- Practical production skills
- Completion of a structured CTE-aligned program

Program Benefits for Schools

- Turnkey CTE program ready for immediate deployment
- No additional curriculum development required
- Supports digital media and creative career pathways
- Scalable for classrooms, after-school programs, and workforce initiatives
- Engages students through hands-on, project-based learning

Implementation Options

- Full semester course
- Year-long pathway program
- Elective course
- After-school or enrichment program
- Workforce development training

Organization Information

Organization Name: Foundation X Academy (FXA)

Status: 501(c)(3) Nonprofit Organization

Program Type: Online Career & Technical Education Program

Contact Information

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