

Proposal: Audio Production & Broadcasting CTE Pathway

(CTE Program of Study Proposal – Perkins V Aligned)

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Proposed Career Cluster: Arts, Audio/Video Technology & Communications

Proposed Pathway Name: Audio Production & Broadcasting

Credential Awarded: Certificate of Skill Attainment (CSA)

I. Introduction

This proposal outlines a complete three-year Career and Technical Education (CTE) Program of Study in Audio Production & Broadcasting that meets the Nevada Perkins V plan requirements for Level 1, Level 2, and Advanced Studies coursework. The pathway is designed to lead to industry-recognized credentials, prepare students for high-wage, high-skill, and in-demand occupations identified by the Governor’s Office of Economic Development (GOED) and the Nevada Department of Employment, Training, and Rehabilitation (DETR), and provide a direct pipeline to postsecondary education and the workforce. The program reflects Nevada’s position as a global leader in live entertainment, media, and tourism by preparing students for 21st-century careers in studio recording, live sound engineering, podcasting/broadcast audio, music production, and related media arts fields. Unlike legacy programs limited to traditional radio production, this pathway addresses the skills and technologies driving Nevada’s modern creative industries.

II. Program of Study Overview

The Audio Production & Broadcasting Pathway is a sequenced, multi-year program that allows students to build foundational skills before advancing into specialized areas of study.

Level 1 – Studio Recording & Production (36 weeks)

Core technical skills in audio recording, mixing, and production using industry-standard equipment and software. Emphasis on microphone techniques, multi-track recording, signal flow, basic mastering, and introduction to digital audio workstations (DAWs). Portfolio development begins.

Level 2 – Specialization (18 weeks each)

1. Live Sound Engineering – Event audio setup, mixing for live performance, wireless system management, and troubleshooting for concerts, theater, and large-scale events.

2. Podcasting & Broadcast Audio – Voice recording, audio editing, broadcast compliance, and digital content distribution, including streaming and on-demand formats.

Advanced Studies – Student Specialization & Capstone (Year 3)

Advanced focus area such as Modern Band, DJ/MC Performance, or Music Technology/Electronic Music Production. Capstone includes industry certifications and professional portfolio. Work-based learning integrated where available.

III. Alignment to Perkins V Requirements

1. Multi-Year Sequence – Year 1 foundational, Year 2 specialization, Year 3 advanced studies.
2. Industry-Recognized Credentials – Pro Tools, Dante, Shure, Adobe certifications.
3. High-Wage Occupations – All above \$34.08/hr MIT Living Wage.
4. In-Demand Occupations – Listed in Nevada’s GOED/DETR “Creative Industries” and “Tourism/Entertainment” sectors.

IV. Industry & Postsecondary Alignment

Postsecondary Partners: UNLV, UNR, CSN. Industry Partners: Caesars Entertainment, MGM Resorts International, Live Nation, PBS Nevada, Local Studios & Theaters. Equipment/Software Partners: Avid, Shure, Audinate, Adobe, Presonus.

V. Benefits to Nevada Students

Student Outcomes: Prepared for employment, apprenticeships, or college; Skills for Nevada’s live entertainment and creative industries; Industry certifications before graduation; Equitable access for urban and rural districts. Economic Impact: Addresses workforce needs; Creates talent pipeline; Supports Nevada’s tourism and events sectors.

VI. Conclusion

The Audio Production & Broadcasting Pathway fulfills the Nevada Perkins V definition of a multi-year, high-skill, high-wage, in-demand CTE program. It integrates studio recording, live sound engineering, and podcasting/broadcast audio into a structured sequence with recognized certifications, aligning with state economic priorities.

Appendix A - Sample Curriculum Maps

Audio Production & Broadcasting CTE Pathway - Curriculum Maps

Studio Recording & Production

Studio Recording & Production (SCED 05123, renamed)

Length: 36 weeks | Credit: 1.0 | Grades: 9-12

Description: Introduces fundamentals of audio recording and production in a studio environment. Covers signal flow, microphone techniques, DAW operation, mixing, and mastering. Emphasis on safety, terminology, collaboration, and portfolio development.

Standards Alignment: CTE Audio/Video Technology & Film, NVACS Music & Media Arts.

Units:

1. Orientation & Safety (Weeks 1-2)
2. Audio Fundamentals (Weeks 3-5)
3. Signal Flow & Equipment Setup (Weeks 6-8)
4. Microphone Types & Techniques (Weeks 9-12)
5. Digital Audio Workstations (Weeks 13-15)
6. Multitrack Recording (Weeks 16-18)
7. Mixing Fundamentals (Weeks 19-22)
8. Advanced Mixing & Automation (Weeks 23-25)
9. Mastering Basics (Weeks 26-28)
10. Collaborative Project (Weeks 29-32)
11. Portfolio & Review (Weeks 33-36)

Assessments: Mic placement lab, DAW editing exercise, collaborative final project.

Audio Production & Broadcasting CTE Pathway - Curriculum Maps

Live Recording & Production

Live Recording & Production (Proposed SCED 05125)

Length: 18 weeks | Credit: 0.5 | Grades: 10-12

Description: Builds on studio skills to prepare students for live performance environments. Covers live sound reinforcement, multitrack capture, and troubleshooting.

Standards Alignment: CTE Audio/Video Technology & Film, NVACS Music & Media Arts.

Units:

1. Introduction to Live Sound (Weeks 1-2)
2. Sound Reinforcement Systems (Weeks 3-4)
3. Microphone Selection & Placement for Live Events (Weeks 5-6)
4. Live Multitrack Recording (Weeks 7-8)
5. Troubleshooting & Problem Solving (Weeks 9-10)
6. Event Production Project (Weeks 11-14)
7. Post-Production of Live Recordings (Weeks 15-18)

Assessments: System setup, troubleshooting exercise, live event project.

Audio Production & Broadcasting CTE Pathway - Curriculum Maps

Podcasting & Broadcast Audio

Podcasting & Broadcast Audio (New SCED TBD)

Length: 18 weeks | Credit: 0.5 | Grades: 10-12

Description: Focuses on audio storytelling, spoken-word production, and broadcast-ready audio. Students plan, record, edit, and publish podcasts/broadcasts.

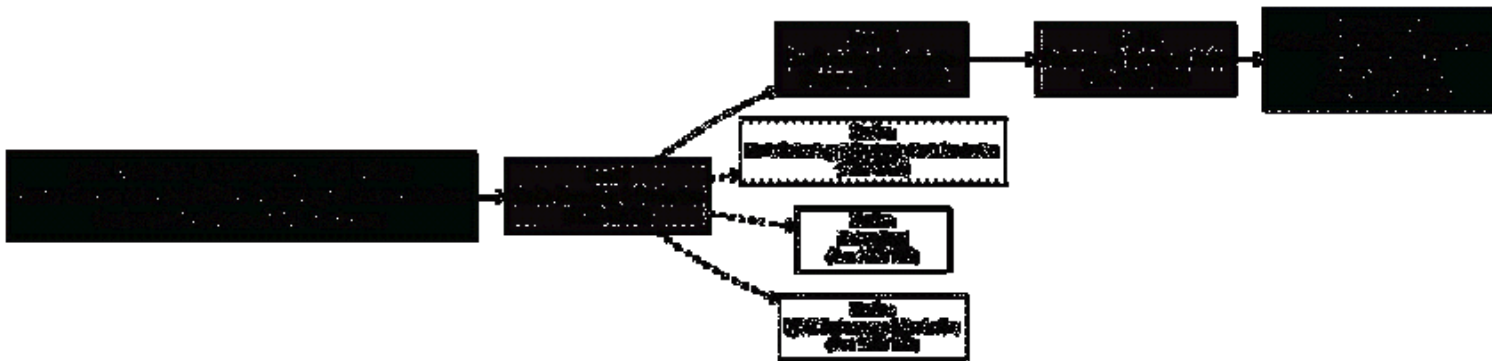
Standards Alignment: CTE Audio/Video Technology & Film, NVACS Music & Media Arts.

Units:

1. Introduction to Podcasting & Broadcast Media (Weeks 1-2)
2. Planning & Scripting (Weeks 3-4)
3. Voice Recording Techniques (Weeks 5-6)
4. Editing & Post-Production (Weeks 7-8)
5. Broadcast Standards & Ethics (Weeks 9-10)
6. Podcast/Broadcast Project (Weeks 11-14)
7. Publishing & Promotion (Weeks 15-18)

Assessments: Script, recording session, multi-episode project.

Appendix B - Audio Production Pathway



Appendix C – Partner & Funding Opportunities

The following companies and organizations have established education programs, grants, or institutional pricing that can help offset the costs of equipment, software, and training for the **Audio Production & Broadcasting CTE Pathway**.

Partner	Education Program	What They Offer	Suggested “Ask” for Our Program
Yamaha Corporation	Yamaha Music Education & Institutional Sales	Discounted pricing, demo equipment programs, occasional grants, training support	Studio monitors, mixers, PA systems, music lab packages
Shure	Shure Audio Institute – Education Discounts	Discounted mics & wireless, education training	Microphone package (dynamic/condenser), wireless systems, in-ear monitors
Avid (Pro Tools)	Avid Learning Partner – Education	Free/discounted Pro Tools licenses, instructor training, curriculum resources	Lab licenses, instructor certification, curriculum integration
Adobe	Creative Cloud for Education	Major software discounts, site licenses	Adobe Audition (podcast editing), Premiere Pro (video integration)
Audinate (Dante)	Dante Certification Program	Free certification training, potential hardware partnerships	Dante-enabled mixers/interfaces, networked audio tools
Preonus (Fender)	Education Sales & Sponsorships	Education discounts, free Studio One DAW licenses, hardware	Studio One Pro licenses, audio interfaces, control surfaces

Funding Notes:

- Many of these programs are **stackable** — software discounts + hardware sponsorships + state/federal Perkins funds can cover most startup costs.
- **Perkins V CTE funds** can be used for capital equipment if aligned with approved CTE pathways.

- **Local industry sponsorships** (venues, broadcasters, event companies) can provide in-kind gear or real-world internship opportunities.

Appendix D – Certification Alignment & Wage Data

Occupation Median Hourly Wage Meets MIT Living Wage? Relevant Certifications

Occupation	Median Hourly Wage	Meets MIT Living Wage?	Relevant Certifications
Audio Engineer (Live/Studio)	\$38.55	Yes	Avid Pro Tools, Dante, Shure Audio Institute
Broadcast Technician	\$35.74	Yes	Adobe Audition, FCC Compliance Training
Sound Designer / Audio Post-Production	\$40.12	Yes	Pro Tools, Adobe Audition, Dolby Atmos
Music Producer	\$42.08	Yes	Pro Tools, Logic Pro X, Mixing/Mastering Certification
Audio-Visual Technician (Events)	\$36.22	Yes	Dante, Shure Wireless, AVIXA CTS
Foley Artist / SFX Specialist	\$39.48	Yes	Pro Tools, Sound Design Certification