Practicum in Digital Audio Technology

PEIMS Code: N1300996
Abbreviation: PRACDAT
Grade Level(s): 11-12
Award of Credit: 1.0

Approved Innovative Course

- Districts must have local board approval to implement innovative courses.
- In accordance with Texas Administrative Code (TAC) §74.27, school districts must provide instruction in all essential knowledge and skills identified in this innovative course.
- Innovative courses may only satisfy elective credit toward graduation requirements.
- Please refer to TAC §74.13 for guidance on endorsements.

Course Description:

The Practicum in Digital Audio Technology course is the pinnacle experience for Digital Communications program graduates, focusing on digital audio and entertainment industry preparation. This capstone course builds on prior learning, emphasizing practical skill acquisition in broadcasting, streaming, podcasting, studio recording, and audio creation for various media. Beyond theoretical knowledge, the course offers hands-on experience, enabling students to enhance their portfolios. Notably, participants can earn Industry-Based Certifications, such as Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign (Adobe-110), Audio-Visual Communications – Job Ready (NOCTI-937), Broadcasting and Journalism (NOCTI-953), and Adobe Certified Professional in Digital Video Using Adobe Premiere Pro (Adobe-110). This holistic approach equips students with the essential skills and certifications for success in the dynamic digital audio and entertainment field. This comprehensive approach equips students with the skills and certifications necessary for success in the dynamic digital audio and entertainment landscape.

Essential Knowledge and Skills:

(a) General Requirements. This course is recommended for students in grades 11-12. Prerequisites: Digital Audio Technology I and Digital Audio Technology II. Students shall be awarded two credits for successful completion of this course.

(b) Introduction.

(1) Career and technical education instruction provide content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions.

(2) The Arts, Audio/Video Technology, and Communications Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content, including visual and performing arts and design, journalism, and entertainment services.
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3 Practicum in Digital Audio Technology builds upon concepts taught in Digital Audio Technology II. Students develop advanced technical knowledge and skills and an increasing understanding for the audio industry with a focus on industry pathways such as Live sound, broadcast, streaming, podcasting, studio recording and audio for film, video and games. This course may be implemented in an advanced audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

4 Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

5 Statements that contain the word "including" reference content that must be mastered, while those containing the phrase "such as" are intended as possible illustrative examples.

(c) Knowledge and Skills.

1 The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:

(A) participate in a paid or unpaid, laboratory or work-based application of knowledge and skills related to digital audio;

(B) identify and demonstrate professional standards needed to be employable such as leadership and teamwork skills, appreciation for diversity, conflict management, customer service, work ethic, and adaptability;

(C) create and maintain a resume and cover letter or letter of interest to document information such as work experiences, licenses, certifications, and references;

(D) create and maintain a professional portfolio to highlight knowledge, skills, and accomplishments including the acquisition of any industry-based certifications or post-secondary credentials;

(E) identify potential employment, job types, and job requirements;

(F) describe and demonstrate professional etiquette and protocol in situations such as making introductions, speaking on the phone, and communicating via electronic devices;

(G) describe and demonstrate appropriate grooming and attire; and

(H) demonstrate professionalism in receiving criticism and follow-up communication.

2 The student applies academic knowledge and skills in production projects. The student is expected to:

(A) apply advanced English language arts knowledge and skills using content, technical concepts, and vocabulary with correct grammar, punctuation, and terminology to write and edit documents;

(B) compose and edit copy for a variety of written documents such as scripts, captions, schedules, reports, manuals, proposals, and other client-based documents; and

(C) apply proper mathematical knowledge and skills for invoices and time-based calculations using appropriate mathematical operations and measurements.

3 The student implements advanced professional communications strategies. The student is expected to:

(A) write and edit scripts to correspond and align with recording session expectations;
(B) formulate, analyze, and organize oral and written information;
(C) formulate, analyze, interpret, and communicate information, data, and observations;
(D) use clear and appropriate communications to convey skill set to others;
(E) create and deliver formal and informal presentations;
(F) apply active listening skills to obtain and clarify information;
(G) identify and demonstrate effective communication skills for interacting with diverse individuals and audiences; and
(H) analyze and model public relations skills to increase internal and external customer/client satisfaction.

(4) The student implements advanced problem-solving methods. The student is expected to:

(A) describe and employ advanced problem-solving and critical thinking methods such as demonstrating the ability to collect, analyze, and interpret data and analyze and evaluate information both independently and in groups;
(B) employ interpersonal skills in groups to solve problems and make decision; and
(C) describe and use the creative process to meet client needs and expectations.

(5) The student implements advanced technology applications and processes. The student is expected to:

(A) create advanced audio production projects using technology applications such as social media, email, Internet, writing and publishing, presentation, and spreadsheet or database applications;
(B) implement personal information management and file management processes;
(C) facilitate collaboration by using file sharing services such as cloud-based file management and storage systems;
(D) analyze the benefits and drawbacks of various media distribution services such as internet-based streaming or on demand services; and
(E) apply basic network operations and protocols such as connecting devices to a network; mapping to servers, drives, or folders; and connecting Audio Video over Internet Protocol (AVoIP) equipment point to point.

(6) The student implements advanced knowledge of the evolution and current trends of the audio production industries. The student is expected to:

(A) summarize the history and evolution of audio production industries;
(B) analyze the current trends of audio production industries; and
(C) analyze the current impact of audio production industries on society.

(7) The student applies safety regulations of digital audio industries. The student is expected to:

(A) implement personal and workplace safety rules and regulations consistently, including emergency procedures specific to a digital audio workplace; and
(B) identify and resolve potential safety concerns in a digital audio workplace.
The student implements leadership characteristics in student organizations or professional development activities. The student is expected to:

(A) describe and employ leadership skills to accomplish goals and objectives by analyzing the various roles of leaders within organizations, exhibiting problem-solving and management traits, describing effective leadership styles, and participating in civic and community leadership and teamwork opportunities to enhance skills;

(B) describe and employ teamwork and conflict-management skills for achieving collective goals;

(C) explain how providing constructive praise and criticism, demonstrating sensitivity to and value for diversity, and managing stress and controlling emotions can establish and maintain effective working relationships;

(D) prepare for meetings by developing goals and objectives to achieve within a scheduled time and producing agendas;

(E) conduct and participate in meetings to accomplish work tasks by achieving goals and objectives within a scheduled time; producing meeting minutes, including decisions and next steps; and using parliamentary procedures, as needed; and

(F) describe and employ mentoring skills to inspire and teach others.

The student implements ethical decision making and complies with laws regarding use of technology. The student is expected to:

(A) research and comply with copyright, fair use, trademark, and personal privacy laws;

(B) exhibit ethical conduct by citing sources and providing proper credit for intellectual property, ideas, and work using academic citations;

(C) describe and demonstrate the importance of modeling respect for intellectual property when manipulating, morphing, and editing graphics, video, text, and sound by obtaining permissions and or licensing as required;

(D) analyze and exhibit ethical conduct related to receiving, managing, and utilizing sensitive data, information, or content;

(E) identify and exhibit proper etiquette and knowledge of acceptable use policies when using internet and intranet networks, and internet-based resources such as search engines and Internet platforms such as social media;

(F) analyze the consequences of creating socially provocative media; and

(G) research and comply with applicable rules and regulations of the associated governing authority such as the Federal Communications Commission (FCC), local school district, or client.

The student identifies appropriate career-building strategies and maintains a professional portfolio. The student is expected to:

(A) evaluate and compare employment opportunities in the digital audio technology field; and

(B) identify networking and competition opportunities with Career and Technical Student Organizations (CTSOs).

The student employs effective planning and time-management skills to enhance productivity in a digital audio technology setting. The student is expected to:
(A) describe and employ effective planning and time-management skills to complete digital audio technology work tasks; and

(B) create and implement a plan to enhance productivity by using available technology for digital audio technology projects.

(12) The student implements an advanced understanding of a client-based production in all stages of production. The student is expected to:

(A) determine and model how to meet client needs by conducting client meetings to identify specific project requirements, specifications, and target demographics; and

(B) develop a production proposal for client approval that includes a production schedule, research-based production costs, and appropriate delivery and distribution options.

(13) The student understands the pre-production activities for successful execution of a project. The student is expected to:

(A) identify cast, crew, equipment, and location requirements for a digital audio technology project;

(B) develop a budget with considerations for cast, crew, equipment, and location;

(C) analyze the script and storyboard processes; and

(D) assign team roles required for production.

(14) The student understands the production activities for successful execution of a project. The student is expected to:

(A) model or conduct a client meeting for presenting production strategies and implement client feedback;

(B) outline and implement a coherent sequence of production events;

(C) ensure quality productions by identifying and coordinating necessary equipment and crew;

(D) demonstrate appropriate use of editing systems; and

(E) explain and make decisions appropriate for each element of production.

(15) The student understands post-production activities for a successful output and distribution of the project. The student is expected to:

(A) evaluate and make necessary adjustments regarding compatibility issues, including digital file formats and cross-platform connectivity;

(B) identify and apply various compression standards to facilitate distribution;

(C) research and advise clients on optimal delivery options for the target audience;

(D) analyze distribution options for optimal project reach;

(E) identify or list content on relevant online distribution directories;

(F) explain the importance of updating metadata to include publishing and copyright information;

(G) create basic thumbnail art to be included in directories; and

(H) analyze and discuss analytical data for promotional and content creation purposes.

(16) The student practices business skills for freelance entrepreneurs. The student is expected to:
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(A) research and identify entrepreneurship opportunities in digital audio technology;
(B) describe and implement standard freelance entrepreneur self-promotion techniques;
(C) develop proposals, standard billing, and collection practices;
(D) research and describe freelance entrepreneur start-up practices; and
(E) research and evaluate the challenges, risks and benefits of freelancing.

**Recommended Resources and Materials:**


**Recommended Course Activities:**

- Students may be assigned to interview potential customers, giving their pitch for the business, gathering customer feedback and consider revising business plans where appropriate.
- Students may be assigned to job shadow within a digital audio environment.
- Students may be assigned to assess businesses that have failed, determine factors associated with business closure, and prepare analysis to share with class.
- Students may work with mentors or employers from industry to analyze and discuss digital audio employment positions.
- Students may work with mentors on how to build and read financial statements to improve the essence of business performance in their business model of choice.
- Students may participate in CTSO competitive events related to Digital Audio in SkillsUSA, BPA, FBLA and/or DECA to enhance and practice related skills.
- Students may be assigned to create, mix, and design sound effects using Adobe Audition, audio editing software.
Suggested methods for evaluating student outcomes:

- Student work may be evaluated after each update to their portfolio at the end of each unit. Student portfolios encompass skills and competencies of the digital audio course.
- Student performance may be evaluated on the changes made to the student portfolio as per the content mastered in each unit.
- Student performance may be evaluated on a portfolio project to be presented orally to interested stakeholders.
- Student learning outcomes may include the review and evaluation of case studies. A case study analysis is not simply descriptive but a critical exercise which involves the examination of a situation, business, or institution with a goal of making recommendations.
- Students may work in groups, with specific areas of digital audio responsibility assigned to each group member. Students may evaluate the performance of other group members in peer review fashion throughout the year.
- Student work may be evaluated by local industry professionals or post-secondary school to provide adequate feedback on student performance and skill level.

Teacher qualifications:

An assignment for the Practicum in Digital Audio Technology is allowed with one of the following certificates.

- Secondary Industrial Arts: Grades 6-12
- Secondary Industrial Technology: Grades 6-12
- Technology Applications: Early Childhood-Grade 12
- Technology Applications: Grades 8-12
- Technology Education: Grades 6-12
- Trade and Industrial Education: Grades 6-12 - This assignment requires appropriate work approval.
- Trade and Industrial Education: Grades 8-12 - This assignment requires appropriate work approval.
- Vocational Trades and Industry - This assignment requires appropriate work approval.

The school district is responsible for ensuring that each teacher assigned to the Practicum in Digital Audio Technology has completed appropriate training in state and federal requirements associated with work-based learning and safety.

Additional information:

N/A