

Professional Technical Studies: Arts, AV Technology, & Communications Cluster
Audio & Video Technology & Film Pathway

Strand:

PT-AVT1

Audio and Visual Technology and Film

Students use information technology to design, produce, exhibit, and publish multimedia content.

Standard:

PT-AVT1a: The student will explore career opportunities in audio and video technology so as to:

Components:

PT-AVT1a.1: exhibit knowledge of the history of film and how it is specifically related to the industry today;

PT-AVT1a.2: analyze various careers and their job descriptions in audio and video technology and film;

PT-AVT1a.3: define the terminology associated with audio and video technology and film production; and

PT-AVT1a.4: comprehend the value of a broad general knowledge of fine arts and cultural and regional diversity.

Standard:

PT-AVT1b: The student will apply knowledge of equipment and skills related to audio production so as to:

Components:

PT-AVT1b.1: comprehend the types of microphones, pickup patterns, and techniques required for a variety of audio presentations;

PT-AVT1b.2: apply knowledge of audio equipment for productions, including basic recording equipment, equalizers, mixing console, and quality-monitoring equipment;

PT-AVT1b.3: exhibit knowledge of analog and digital audio formats;

PT-AVT1b.4: illustrate the techniques required for synchronization of an audio with video and multiple sound tracks; and

PT-AVT1b.5: demonstrate writing audio scripts for various types of programs.

Standard:

PT-AVT1c: The student will apply knowledge of equipment and skills related to video production so as to:

Components:

PT-AVT1c.1: apply knowledge of lighting requirements for a planned production;

PT-AVT1c.2: apply knowledge of analog and digital video formats;

PT-AVT1c.3: demonstrate operation and maintenance of a video system;

PT-AVT1c.4: demonstrate knowledge of camera operations, video signals, and video formats;

PT-AVT1c.5: exhibit knowledge of computer-based development of video production and editing, with an emphasis on digital technology;

PT-AVT1c.6: describe how to frame and maintain picture composition;

PT-AVT1c.7: demonstrate focusing and adjusting images and performing pans and zooms; and

PT-AVT1c.8: analyze production functions.

Standard:

PT-AVT1d: The student will exhibit knowledge of editing audio and video productions so as to:

Components:

PT-AVT1d.1: identify the basic functions of, and resources for, editing;

	PT-AVT1d.2:	apply knowledge of basic editing to both linear and nonlinear systems; and
	PT-AVT1d.3:	apply knowledge of control peripherals used for editing.
Standard:	PT-AVT1e:	The student will demonstrate technical production support for audio, visual, and film presentations so as to:
Components:	PT-AVT1e.1:	demonstrate repair and servicing of transmitting and receiving systems;
	PT-AVT1e.2:	apply knowledge of wireless and wired transmission systems;
	PT-AVT1e.3:	demonstrate installation of cabling for audio and video productions;
	PT-AVT1e.4:	demonstrate the installation of a wireless audio-video system; and
	PT-AVT1e.5:	demonstrate writing audio scripts for various types of programs.
Standard:	PT-AVT1f:	The student will exhibit the knowledge and skills required to design audio-video presentations so as to:
Components:	PT-AVT1f.1:	apply knowledge of the critical elements in designing a production throughout the stages of pre-production, production, and post-production;
	PT-AVT1f.2:	create a short script and identify the resources needed to begin the production;
	PT-AVT1f.3:	identify the activities associated with pre-production, production, and post-production;
	PT-AVT1f.4:	analyze the script and storyboard development processes for successful production;
	PT-AVT1f.5:	execute production of the script; and
	PT-AVT1f.6:	critique a production to determine how the various elements resulted in a successful or unsuccessful presentation.
Standard:	PT-AVT1g:	The student will exhibit ethical conduct in writing, creating, printing, broadcasting, and performing so as to:
Components:	PT-AVT1g.1:	analyze ethical principals of decision making related to clients, customers, fellow workers, and others;
	PT-AVT1g.2:	analyze ethical conduct that provides proper credit to those whose ideas and content have been used; and
	PT-AVT1g.3:	identify the proper use of proprietary information.
Standard:	PT-AVT1h:	The student will apply knowledge of laws affecting this career cluster so as to:
Components:	PT-AVT1h.1:	analyze the copyright laws in relation to seeking formal permission to use materials;
	PT-AVT1h.2:	analyze the First Amendment, FCC, the Freedom of Information Act, libel laws, and other regulations for the compliance issues relevant to this cluster; and
	PT-AVT1h.3:	analyze the liabilities associated with productions and performances, media, and telecommunications installations.