

Arizona Department of Education

Career and Technical Education

Recommended Equipment List

Program: Film and TV Production
CIP#: 10.0200.90

NOTE: The following items and descriptions are the recommended equipment guidelines for each **CTE Film and TV Production** program. Please note that this list of recommended items does not necessarily need to be supported financially by Federal Perkins or State Priority funding sources. In many cases, local school district funds are used to purchase items on a regular basis (i.e. furniture, consumables, etc.) Further, please understand that this is not an exhaustive list. Local program and business needs may necessitate the purchase of additional equipment and software resources, as may the rapidly-changing nature of the industry-specific technologies used in the program.

Please contact ADE-CTE Program Specialist for Business and Marketing Education & Communication Media Technologies,
 Elena Sobampo (Elena.Sobampo@azed.gov), if you have questions regarding the appropriateness of any item you are considering for addition to your **CTE Film and TV Production** program.

Recommended Equipment and Software

CLASSROOM

Item	Notes
*Computer workstation with standard and program-required input devices and ports (mouse, keyboard, USB etc.)	Both macOS and Windows computer workstations are acceptable, provided the computer hardware, graphics hardware, sound/audio hardware, RAM, hard-disk space, and operating system software are capable of efficiently running all installed software applications and supporting any and all attached peripherals. Consult the product specifications for all program-specific software applications to ensure that computer workstations meet minimum recommended hardware requirements.
Computer display	Minimum 21-inch monitor capable of displaying full HD resolution or higher.
Secure network storage space for digital files	For projects and student portfolios; server- or cloud-based.
Laser printer	Color laser printer preferred. A multi-function laser printer (printer, photocopier, and scanner) would also be appropriate.
Locking storage cabinets	Should have enough capacity to safely store all program equipment and to allow for convenient access and equipment check-in/out.

PRODUCTION STUDIO / CONTROL ROOM

Item	Notes
Production studio	It is highly recommended that the program have a production studio that is separate from (but conveniently located near) the classroom. If this is not practical or feasible, then the classroom should have enough space to set-up a production studio with ample room for instruction and production. It is highly recommended that the production studio (or in-class production space) be a minimum of 1,200 square feet, with 12-foot ceilings for lighting grid, green/blue screen, sets, tripods, cameras, appropriate electrical to run electronic devices and technology needed for the studio, etc.
Production video switcher	Minimum of 4 inputs
Studio video cameras	Studio cameras must interface with production switcher

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Teleprompter	
Studio monitors	
Backdrops and stands	<i>Various colors (black, white, grey)</i>
Green/blue screen	<i>Multiple sizes (small and large)</i>
Wireless communication system for production studio/control room	

STUDIO LIGHTING

Item	Notes
Lighting control board for production studio	
LED lighting system and grid for production studio (with key, back, and fill lights)	
Soft and hard fresnels	

AUDIO

Item	Notes
Shotgun microphone	
Boom pole with shotgun microphone and headset	
Wired lavalier and headsets	
Handheld performance microphone	
Wireless microphone	
USB voice-over microphone	

PORTABLE EQUIPMENT

Item	Notes
Professional video camera with removable media, lens, battery, and monitor	
HD camcorder	
Full frame or crop frame "prosumer" DSLR camera (including all required components and accessories: memory cards, cables, rechargeable batteries, carrying case, etc.)	
6 channel field mixer	<i>Minimum of 4 inputs</i>
8" production monitor (for field mixer)	
External audio recorders	<i>Like H4N or H1N or equivalent</i>

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Lighting kit for field work (three-point lighting setup)	
Flag kits (18"x24" and 24"x36")	
Reflectors	

SOFTWARE

Item	Notes
Adobe Creative Cloud, which includes Adobe Premiere Pro, Adobe After Effects, Adobe Photoshop, and other essential, industry-standard creative desktop applications	<i>Software applications should be no more than one version behind the current release.</i>
Final Cut Pro X (Apple Macintosh compatible only)	<i>Software applications should be no more than one version behind the current release.</i>
Professional-grade digital audio editing/music creation software (AVID Pro Tools, Acoustica Mixcraft, Sony Acid Pro, Sony Acid Music Studio, Audacity, Apple Logic Pro X (Apple Macintosh compatible only), GarageBand (Apple Macintosh compatible only), or similar.)	<i>Software applications should be no more than one version behind the current release.</i>
Microsoft Office Suite, which includes Microsoft Word, Microsoft PowerPoint, Microsoft Excel, and other essential, industry-standard productivity software applications	<i>Software applications should be no more than one version behind the current release.</i>

MISC. EQUIPMENT

Item	Notes
Production slates	
Fluid head tripods	
Shoulder rig	<i>Recommended that one shoulder rig have a follow focus</i>
Handheld gimble rig	
Handheld camera stabilizer mount	
Slider	
C-stands	
Sandbags	
6'x50' stingers	

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Power strips	
Audio and video cables	
Ladder	
Leather gloves	
High quality camera bags and cases	<i>Mix of backpacks and hard/soft cases - various sizes</i>
Portable/laptop computer workstations	<i>To be used for CTSO competitions. Specifications equal to the desktop workstations listed above.</i>

Additional Equipment and Software Options

Item	Notes
65" HD television	<i>For classroom instruction and to view student projects</i>
Dual computer display	<i>Extended desktop utilizing two monitors (minimum 21-inch monitor capable of displaying full HD resolution or higher.)</i>
Computer headphones	
Portable external hard drives and flash drives for file storage/backup and transfer	
Server (controlled by CTE Media Department) with network storage	
Production studio furniture/set	
Tricaster	
Sound treatment (absorption and diffusion) materials	
Production cart	
Extra memory cards for cameras	
Extra batteries for cameras and microphones	
POV camera	<i>Like GoPro or similar with various adapters.</i>
Drone	<i>Like DJI Phantom, Mavic, or Spark or similar.</i>
Matte box	
Various lenses for DSLR cameras	
ND (neutral density) filters	
Dolly	
Steadicam vest and arm	
Camera crane/jib	
Lighting gels	
Diffusion film	
Gaffer and camera tape	
Black wrap	
Apple boxes	<i>Various sizes</i>

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Scenic shop

Could be shared with school's Theatre department

*Must meet the guidelines for specialized computing equipment as outlined on the "CTE Equipment Guidelines" at www.azed.gov/cte/gi