Arizona Department of Education
Career and Technical Education
Recommended Equipment List

Program:	Digital Photography
CIP#:	10.0200.50

NOTE: The following items and descriptions are the recommended equipment guidelines for each **CTE Digital Photography** 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 Digital Photography** program.

Recommended Equipment and Software

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 practial 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 600 square feet, with adequate ceiling height for green/blue screens, backdrops, lights and stands, tripods, photo props, and appropriate electrical for the use of all electronic devices being ran and utilized in the studio, etc.*
*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 appoapriate.*
Color inkJet printer (photo quality)	
Flatbed scanner	*Large format scan area (11 in. x 17 in. or larger) recommended.*

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DSLR camera (including all required components and accessories: memory cards, cables, rechargeable batteries, carrying case, lenses, etc.)	*APS-C sized sensor or larger.*
Full frame DSLR camera (including all required components and accessories: memory cards, cables, rechargeable batteries, carrying case, etc.)	
Prime lenses (24mm f/1.2-2.8, 50mm f/1.2-1.8, 100mm f/1.2-2.8, macro, tilt-shift, fisheye, etc.) with filters	
Zoom lenses (70-200mm f/2.8, 16-35mm, 24-70 mm, etc.) with filters	
Speedlight off-camera flash (with radio/infrared controllers and modifiers)	
Softbox lights (with wired and/or radio/infrared controllers, modifiers, and stands)	
Umbrella lights - shoot-through and reflective (with wired and/or radio/infrared controllers, modifiers, and stands)	
Green/blue screen	*Various sizes*
Backdrops and stands	*Various colors*
Reflectors	*Multiple sizes*
Camera tripods	
High-quality camera kit bags and cases	*To safely and securely transport DSLR cameras, lenses,and accessories to and from photo shoots and school/news events.*
Locking storage cabinets	*Should have enough capacity to safely store all program equipment and to allow for convenient access and equipment check-in/out.*
Adobe Creative Cloud, which includes Adobe Photoshop, Adobe Illustrator, Adobe InDesign, and other essential, industry-standard creative desktop applications	*Software applications should be no more than one version behind the current release.*

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Microsoft Office Suite, which includes Microsoft Word, Microsoft PowerPoint, Microsoft Excel, and other essential, industry-standard productivity software applications	*Software applications should be no more than one version behind the current release.*
Portable/laptop computer workstations	*To be used for CTSO competitions.* *Specifications equal to the desktop workstations listed above.*
Additional Equipment and Software Options	
Dual computer display	*Minimum 21-inch monitor capable of displaying full HD resolution or higher.*
Portable external hard drives and flash drives for file storage/backup and transfer	
Camera, display, projector, and printer calibration tool	*X-Rite ColorMunki or similar.*
Additional memory cards and backup rechargeable batteries for DSLR cameras	
Additional specialty lenses and filters for DSLR cameras	
Wide format color inkjet printer	
Dye-sublimation photo printer	

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