

# Arizona Department of Education

## Career and Technical Education

### Recommended Equipment List

**Program:** Graphic and Web Design  
**CIP#:** 10.0200.30

NOTE: The following items and descriptions are the recommended equipment guidelines for each **CTE Graphic and Web Design** 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 Graphic and Web Design** program.

#### Recommended Equipment and Software

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.
Color inkJet printer (photo quality)	
Flatbed scanner	Large format scan area (11 in. x 17 in. or larger) recommended.
Digital drawing tablet	Wacom Intuos or similar
DSLR camera (including all required components and accessories: memory cards, cables, rechargeable batteries, carrying case, lenses, etc.)	APS-C sized sensor or larger.
Camera tripods	
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	<i>Software applications should be no more than one version behind the current release.</i>
Portable/laptop computer workstations	<i>To be used for CTSO competitions. Specifications equal to the desktop workstations listed above.</i>
<b>Additional Equipment and Software Options</b>	
Dual computer display	<i>Extended desktop utilizing two monitors (minimum 21-inch monitor capable of displaying full HD resolution or higher.)</i>
Portable external hard drives and flash drives for file storage/backup and transfer	
Camera, display, projector, and printer calibration tool	<i>X-Rite ColorMunki or similar.</i>
Wide format color inkjet printer	<i>Back-up supply of ink and printer paper recommended.</i>
3D printer	<i>Back-up supply of 3D printing materials recommended.</i>
3D scanner	
Direct-to-garment printer and related equipment and supplies	<i>These items are included as possible equipment resources for a school-based enterprise aligned with your CTE Graphic and Web Design program.</i>
Embroidery machine and related equipment and supplies	
Vinyl cutter and related equipment and supplies	
Screen printing equipment and supplies	
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 controllers, modifiers, and stands)	

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High-end, professional-grade DSLR camera (including all required components and accessories: memory cards, cables, rechargeable batteries, carrying case, lenses, etc.)	
Green/blue screen	
Photographic lighting equipment	

\*Must meet the guidelines for specialized computing equipment as outlined on the "CTE Equipment Guidelines" at [www.azed.gov/cte/gi](http://www.azed.gov/cte/gi)