December 6, 2017

Technology Justification

The use of technology is altering the way that teachers are teaching and (all) students are learning. Arizona students must have regular opportunities to use these tools to develop skills that encourage creativity and innovation, communication and collaboration, research and information fluency, critical thinking, problem solving and decision making, digital citizenship, and personal productivity in the classroom and in daily life. Once these skills are obtained, students will be on the road to becoming lifelong learners and contributing members of a global technological society.

In addition, the Arizona Department of Education requires that CTE/JTED students have the opportunity to obtain industry certifications that are relevant to the pursuit of employment or post-secondary goals. TUSD CTE currently offers the following programs that use Apple technology.

Communications Media Tech	6
Digital Communications	5
Digital Photography	6
Digital Printing	1
Film and TV	5
Graphic/Web	4
Mariachi	1

Apple products are currently the industry standard for technology related hardware and software within the Communication Media Technology industry. TUSD CTE currently uses this hardware/software in our computer labs and have developed a plan to comply with CTE Federal Grant stipulation to be current with industry equipment standards.

Listed below are Certifications for TUSD Communication Media Technology programs that include Apple only hardware/software currently being utilized with both iMacs and iPad's. This software is not compatible with PC operating systems.

- *Blender, Motion, Nodes*
- *iMovie, GarageBand, Photo App, Affinity Photo*
- *Affinity Design*
- *Affinity Design*
- *Final Cut Pro X, Motion, Nodes, iMovie, Garage Band, Logic pro.*
- Adobe Certified Associate in Light room
- Final Cut Pro X
- Apple Certified Media Administrator
- SWIFT Coding

Each TUSD Communication Media Technology teacher has received the following technology and training. This purchase would allow for continued device compatibility and future instructional enhancements.

- 12.9 iPad Pro which enables them to be mobile in the classroom with the ability to monitor/control student's machines on the iPad with software only available from Apple.
- 3-day training using Adobe Master Collection with iMacs.
- Apple TV to enable students and teachers to share/collaborate projects currently on workstation or iPad
- Classroom sets of iPads so students can learn how to quickly edit clip or picture shot with iPad and share it immediately back to desktop with Apple's airdrop technology.

Justification of Purchase

- This Purchase is part of CTE refresh schedule to replace current aging Apple iMacs being used in CTE Photo and CMT labs with newest iMac in order to make program compatible enhancements.
- CTE IT staff will have the ability to continue to remotely manage, track and deploy Apps to all Apple devices including the ability to restrict what apps can be used. Purchasing another device would mean that each machine would have to be touched individually based on program needs.
- We are also planning to refresh aging desktops in CTE Early Childhood Development programs with iPads. The mobile devices will allow for technology expansion at a later date. This purchase will also allow us to manage the devices more efficiently, using an already existing system.

Respectfully,

Chuck McCollum

Chuck McCollum
Coordinator Career & Technical Education