

**Updated on 10/4/2016 11:30 AM**  
**Information Technology**  
**Pathway Specific Equipment Specifications**

The purpose of this document is to provide school districts a standard purchasing procedures document to use when installing or upgrading computer labs. This document provides minimum specifications for equipment, software, furniture, and so forth. The district will be responsible for purchasing and maintaining all equipment, providing proper security, replacing missing equipment, and providing annual funds for the operation of the program. The district is also responsible for providing site preparation and electrical wiring. Schools that wish to purchase items different from those in this specification document will require written permission from the MDE.

Due to budget constraints, districts are encouraged to use existing hardware, software, and furniture and supplement with new items as needed. For existing items, the MDE will waive the requirement to purchase new items if the existing product meets the minimum specifications listed here. Some items in these specifications are listed as “optional,” and it is at the school district’s discretion whether these items should be purchased.

### **Important Notes Concerning this Document**

- **When configuring labs, please refer to both the General Equipment Specifications and Pathway Specific Equipment documents located on the Curriculum Download page. The General Equipment Specifications document contains a list of equipment needed to successfully implement all programs. The Pathway Specific document contains a list of equipment needed for a specific pathway. You will need to order the necessary equipment from both lists in order to implement your program.**
- If labs are shared for multiple programs, be sure the minimum specifications are met for all programs.
- Any requests for Apple computers and/or hardware will be handled on a case-by-case basis by the Mississippi Department of Education. Apple should certify that all curricula, hardware, and software will run with items listed elsewhere in this document
- An existing server may be used with approval from local information technology (IT) personnel and the MDE.
- Existing networking equipment may be used if minimum specifications are met.
- Districts that install a wireless lab must gain permission from the MDE. Contact Christy Todd at [ctodd@mde.k12.ms.us](mailto:ctodd@mde.k12.ms.us).
- Districts may choose to purchase switches with fewer than 48 ports, matching the number of ports to the size requirements of the labs. If using a wireless network, wired switch(es) would be shared among labs according to the district's needs.
- Alternate office productivity, keyboarding, creative suite, and/or CAD software may be used upon approval of the MDE. It is recommended that each district investigate existing software licenses to see if these programs may be added.
- This equipment specification document contains preferred items as well as an alternate “thin client” option. If the thin client option is chosen, it is imperative that ample Internet access be available as online software is readily used with this option.

## Information Technology

### Pathway Specific Equipment Specifications

#### A. Computer Systems and Peripherals

Minimum specifications for lab hardware are based on the current Express Products List (EPL). The Mississippi Department of Information Technology Services (ITS) EPLs have stated dollar spending limits. For instance, for hardware EPLs, the limits are:

- **For purchases over \$50,000, the customer MUST solicit quotations from two or more EPL sellers.**
- For K-12 Schools, the dollar limitation is interpreted by ITS to be \$200,000 per project per school or campus per fiscal year, with a maximum dollar limitation of \$1,000,000 per school district per fiscal year for a project that spans multiple schools within the district.
- Projects costing in excess of \$200,000 are beyond the scope of this delegated process and subject to full ITS review and authorization. Authorization to exceed the EPL dollar limitation is described in the ITS Procurement Handbook under the ***EPL Planned Purchase*** process, article 013-080. <http://dsitspe01.its.ms.gov/its/procman.nsf/TOC4?OpenView>

Schools that choose to use the ITS EPLs will need to follow the ITS EPL instructions. Schools that choose to advertise for bids are encouraged to use the EPLs to compare prices and quality of equipment submitted on bids.

Inside delivery, installation, and setup must take place by the specified target date. School districts may choose to install the equipment and software themselves or have the EPL vendors perform the installation. If a school prefers that the hardware installation be done by the EPL vendor, the EPL quote must include installation, setup, and training (to be scheduled by each local school district). If a school prefers that the software installation be done by the EPL vendor, the EPL quote must also include pre-loading the software described in Section B “Software,” with the school providing the vendor media and proof of license. Vendors should assume that they will perform hardware and software installation unless otherwise indicated by the school in the quote request.

Vendors must propose systems which are configured with all components provided by the base system manufacturer. If a component is not available from the base system manufacturer, the vendor may propose a compatible third party component only if described in their written proposal. Systems and peripherals must be fully configured prior to shipment.

If a warranted defect is found in an item, that item must be repaired or replaced on-site within five working days of notification. A toll-free or local telephone number with a 24-hour response time must be provided for troubleshooting purposes. In the event that a component must be returned to the manufacturer for warranted repairs, a replacement will be provided by the vendor. Charges for shipping and handling of the component and its replacement must be borne by the vendor during the on-site warranty period. All warranty repairs made to the system during the warranty period must maintain full compatibility of the system with installed software. Any components found to be defective must be replaced with the same brand and model or its successor.

If the school district chooses not to use the ITS EPLs, the Vendor Certification for IT Equipment and software Statement must be signed by the bidder and returned with the bid.

Districts may exercise the option of having all items bid and installed in the specified configuration by a single vendor or multiple vendors. All upgrades are to be installed and operational by the Target Date.

***NOTE: If labs are shared for multiple programs, be sure the minimum specifications are met for all programs. Schools may choose wired or wireless labs. They may also choose to use standard computers or the thin-client option.***

**Capitalized Items**

Spec Item Number	Description	Suggested Quantity
1	<p><b>All-In-One printer, scanner, copier, and fax</b> (HP OfficeJet Pro 8500 Premier or equal)</p> <p><i>Minimum Specifications</i></p> <ul style="list-style-type: none"> <li>• Print, copy, scan, fax</li> <li>• Black print up to 35 ppm</li> <li>• Color print up to 34 ppm</li> <li>• Black resolution up to 1200 x 1200 dpi</li> <li>• Color resolution up to 4800 x 1200 dpi</li> <li>• Automatic duplex</li> <li>• Memory card support</li> <li>• Automatic sheet feeder (50 sheets or greater)</li> <li>• Scan resolution: Hardware: 2400 x 2400 dpi, Optical: Up to 2400 dpi (or better)</li> <li>• Document scan size: Maximum: 8.5 x 14 in. (21.6 x 35.6 cm), Minimum: 3.5 x 5 in. (127 x 88.9 mm) (or better)</li> <li>• Operating System Compatible: Microsoft Windows XP or Windows 7</li> <li>• Interface: Hi-Speed USB, Ethernet, Fax, and WiFi 802.11 “n”</li> </ul> <p>Includes scanning and OCR software, drivers and utilities, and initial ink cartridges plus one set of replacement ink cartridges</p>	1
2	<p><b>Document Camera</b></p> <p><i>Minimum Specifications</i></p> <ul style="list-style-type: none"> <li>• 1024 x 768 pixel Progressive Scan CCD camera</li> <li>• 600(H) x 600(V) RGB TV lines, 450(H) lines video</li> <li>• 20 fps full-motion video capability</li> <li>• 5X optical Zoom or Higher</li> <li>• Split-Screen live video and stored image comparison</li> <li>• Save moving images in AVI or WMV video format</li> <li>• PC through USB connection</li> <li>• SD memory card or equivalent</li> <li>• DVI and RGB outputs for LCD projectors or large-screen monitors</li> </ul> <p>Appropriate input connections for lab equipment • AC Power source</p>	1
3	<p><b>Microsoft Office Pro 2007 Media (CD-ROM) (Office Pro 2007 Win32 English CD Media Only) or equivalent software</b></p> <ul style="list-style-type: none"> <li>• Dell/ASAP Item # 2332092</li> <li>• Available on the Microsoft Select Price List for Education.</li> <li>• Call Dell/ASAP (800-883-8443)</li> </ul> <p>Note: This item must be ordered and available prior to installation of the computer network.</p>	1
4	<p><b>Microsoft Office Pro 2007 Documentation Kit (Office Pro Win32 English Docs or equivalent software or equivalent software</b></p> <ul style="list-style-type: none"> <li>• Dell/ASAP Item # 1850389 (MS SELECT PRICELIST)</li> <li>• Available on the Microsoft Select Price List for Education.</li> <li>• Call Dell/ASAP (800-883-8443)</li> </ul> <p>Note: This item must be ordered and available prior to installation of the computer network.</p>	1

Spec Item Number	Description	Suggested Quantity
5	<p><b>Windows 2003 Server License (VLA Windows Server 2003 R2 All Languages or equivalent software or equivalent software</b></p> <ul style="list-style-type: none"> <li>• Dell/ASAP Item # 2112978 (MS SELECT PRICELIST)</li> <li>• Available on the Microsoft Select Price List for Education.</li> <li>• Call Dell/ASAP (800-883-8443)</li> </ul> <p>Note: This item must be ordered and available prior to installation of the computer network.</p>	1
6	<p><b>Microsoft Windows 2003 Server Media (CD-ROM) (Windows Server Standard 2003 R2 Win 32/X64 English CD Media Only) or equivalent software</b></p> <ul style="list-style-type: none"> <li>• Dell/ASAP Item # 1986783 (MS SELECT PRICELIST)</li> <li>• (Schools should consult with their vendor on which version of Windows Server to purchase)</li> <li>• Available on the Microsoft Select Price List for Education.</li> <li>• Call Dell/ASAP (800-883-8443)</li> </ul> <p>Note: This item must be ordered and available prior to installation of the computer network.</p>	1
7	<p><b>Windows 2003 Client Access License (VLA Windows Server 2003 Per Device Client All Languages) or equivalent software</b></p> <ul style="list-style-type: none"> <li>• Dell/ASAP Item # 2112973 (MS SELECT PRICELIST)</li> <li>• Available on the Microsoft Select Price List for Education. Call Dell/ASAP (800-883-8443)</li> </ul> <p>Note: This item must be ordered and available prior to installation of the computer network.</p>	21
8	<p><b>Disk Imaging Software</b></p> <ul style="list-style-type: none"> <li>• Note: This item must be ordered and available prior to installation of the computer network.</li> </ul>	21
9	<p><b>Disk Imaging Software 1 Year Basic Maintenance</b></p> <ul style="list-style-type: none"> <li>• Note: This item must be ordered and available prior to installation of the computer network.</li> </ul>	21
10	<p><b>Disk Imaging Software Media</b></p> <ul style="list-style-type: none"> <li>• Note: This item must be ordered and available prior to installation of the computer network.</li> </ul>	1
11	<p><b>Backup Solution Software</b> Backup solution software that provides advanced device and media management</p> <ul style="list-style-type: none"> <li>• 1 license per backup solution</li> </ul>	1
12	<p><b>Visual Basic 2008 Express Edition (Free Download)</b></p> <ul style="list-style-type: none"> <li>• Build applications on Microsoft Windows</li> <li>• Develop applications on .NET</li> </ul>	21

## NON-CAPITALIZED ITEMS

1. Disk holders
2. Computer assisted instruction package for A+ Certification (1 per student)
3. Punch down tools (110 and 60 size with practice blocks) (4)
4. 3/8 inch variable speed electric drill with drill bits (18 volt cordless drill with keyless chuck. Includes high speed drill bit kit) (1/16-17/64, 5/16, and 3/8 inch bits) (1)
5. 24 carpenter's level (1)
6. Computer cable tester (Local tester for D-subminiature, coaxial and RJ11/RJ45 telephone cables) (Paladin 1570 or equal) (1)
7. Computer cable fish tape (100') (1)
8. Digital Video Camera With Tripod (Sony DCR-SR68 or equal)  
Minimum Specifications:  
60x optical zoom  
2000x digital zoom  
2.7-in. LCD  
MiniDV digital camcorder  
Tripod  
Firewire cable  
Includes 80 GB Harddisk
9. **Digital** Web Cam  
Minimum Specifications  
Type: Color – Fixed  
Video Capture: 640 x 480, 1280 x 960 (or better)  
Still Image: JPEG 1280 x 960 (or better)  
Audio Support: Yes, Built-in microphone  
Computer Interface: Hi-Speed USB  
Operating System Compatible: Microsoft Windows XP or Windows 7
- 10.