

**HILLSBOROUGH COUNTY PUBLIC SCHOOLS  
TECHNOLOGY HARDWARE STANDARDS**

Updated on 07/01/2010

All new purchases of computers, computer peripheral devices and office productivity software will be governed by the following:

I. General Specifications:

- A. Computer purchases must include 3-year on-site warranty for parts and labor (3 year depot for laptops).
- B. Computers or peripheral devices must be UL and FCC approved if such designation is applicable to the device.
- C. Computers purchased must be capable of attaching to the Wide Area Network using the district's approved protocols and connectivity.
- D. Computers purchased must include a 10ft. CAT5e cable and USB flash drive- min. 8 GB.

II. Productivity Software for Offices and Teacher Workstations:

- A. Microsoft Office 2007 Professional or its individual components for all computers.
- B. Internet Explorer 7.0 is the standard District Internet Browser

III. Operating System Software:

- A. PC – Windows XP Professional SP3
- B. Server – Windows 2008 Server R2, Standard or Advanced as application/processor requires

IV. Computers Specifications: **MINIMUM ACCEPTABLE SPECIFICATIONS, listed by expected use below.**

CONFIGURATION	MACINTOSH PLATFORM	PC/WINDOWS PLATFORM
<p>Server (School)</p> <p><b>Notes:</b></p> <p><b>External hard drive</b> is required for any file server purchase. Must meet or exceed hard drive capacity</p> <p><b>Smart UPS T1500</b> Is required as power backup supply for any server purchase</p>	<p>May be purchased by special request only and with approval by the Chief Information and Technology Officer or designee.</p>	<ul style="list-style-type: none"> <li>a. processors: 1 Intel processor; 2.26 GHz quad core processor speed or better</li> <li>b. memory: 4GB expandable to 24GB</li> <li>c. hard drive: 4 drives required (RAID configured) (Additional for hot spare, minimum size 146GB. Hot pluggable hard drive trays (6 minimum))</li> <li>d. DVD Rom: 45 x. minimum</li> <li>e. graphic card: SVGA</li> <li>f. graphic memory: 4MB</li> <li>g. ports: 1 serial, video port, USB port</li> <li>h. nic card: gigabit embedded 10/100/1000 MB</li> <li>i. full size keyboard and optical mouse</li> </ul>
<p>Server (Departmental Lab)</p> <p><b>Notes:</b></p> <p><b>External hard drive</b> is required for any file server purchase. Must meet or exceed hard drive capacity</p> <p><b>Smart UPS T1500</b> Is required as power backup supply for any server purchase</p>	<p>May be purchased by special request only and with approval by the Chief Information and Technology Officer or designee.</p>	<ul style="list-style-type: none"> <li>a. processors: 1 Intel processor; 2.26 GHz quad core processor speed or better</li> <li>b. memory: 4GB expandable to 16GB</li> <li>c. hard drive: 4 drives required minimum size 146GB (RAID configured)</li> <li>d. DVD Rom: 45 x minimum</li> <li>e. graphic card: SVGA</li> <li>f. graphic memory: 4MB</li> <li>g. ports: 1 serial, video port, USB port</li> <li>h. nic card: gigabit embedded 10/100/1000 MB</li> <li>i. full size keyboard and optical mouse</li> </ul>

CONFIGURATION	APPLE PLATFORM	PC/WINDOWS PLATFORM
<b>School:</b> Student Classroom Workstation	<p>May be purchased by special request only and with approval by the Chief Information and Technology Officer or designee.</p> <p>May be purchased only for replacement of Macintosh equipment.</p>	<ul style="list-style-type: none"> <li>a. processor: 2.7 GHz dual core or better (Intel)</li> <li>b. memory: 4GB</li> <li>c. hard drive: 160GB (SATA interface on motherboard) or better</li> <li>d. DVD rom: 40x or better</li> <li>e. Ports: extended keyboard and mouse com/printer/USB integrated on motherboard</li> <li>f. nic card: Integrated 10/100/1000 gigabit ethernet</li> <li>g. monitor: 17" SVGA</li> <li>h. minimum of 8 USB ports 2PCI, 1 PCI express, 2 SATA, 2DIMM</li> <li>i. sound: plug and play</li> <li>j. case: small form factor or convertible desktop</li> <li>k. power supply: 200w or better</li> <li>l. full size keyboard and optical mouse</li> </ul>
Office Productivity Workstations	<p>May be purchased by special request only and with approval by the Chief Information and Technology Officer or designee.</p> <p>May be purchased only for replacement of Macintosh equipment.</p>	<ul style="list-style-type: none"> <li>a. All above except with 160GB hard drive</li> </ul>

CONFIGURATION	APPLE PLATFORM	PC/WINDOWS PLATFORM
Student Laptop Computer	<p>May be purchased by special request only and with approval by the Chief Information and Technology Officer or designee.</p> <p>May be purchased only for replacement of Macintosh equipment.</p>	<ul style="list-style-type: none"> <li>a. processor: 2.26 GHz dual core or better (Intel)</li> <li>b. memory: 4GB</li> <li>c. hard drive: 120GB or better</li> <li>d. CD rom: CDRW/DVD</li> <li>e. Screen: 14" viewable, 800x600 pixels, 16 million colors (larger screen size recommended)</li> <li>f. Built-in 10/100/1000 NIC and modem</li> <li>g. PC slots: two Type I or Type II PC card slots or one Type III card, I/O</li> <li>h. 15-pin video connector</li> <li>i. USB keyboard/keypad/mouse</li> <li>j. Audio: microphone-in-jack; line-in/audio-in jack; headphones/speakers jack</li> <li>k. USB: compliant connector</li> <li>l. Battery: lithium ion</li> </ul>
Standard Laptop Computer	<p>May be purchased by special request only and with approval by the Chief Information and Technology Officer or designee.</p> <p>May be purchased only for replacement of Macintosh equipment.</p>	<ul style="list-style-type: none"> <li>a. All of the above plus</li> <li>b. Faster processor (Intel)</li> <li>c. Larger viewable screen area 15"</li> <li>d. Minimum hard drive: 120GB or better</li> <li>e. Carrying case</li> </ul>

V. Laptops Options:

Port replicator or docking station, carrying case, aux mouse and monitor, external USB floppy drive.

VI. Printers

A. Non - Network Printers:

Desktop Color Inkjet (Non Network)	36 ppm black and 27 ppm in color * includes USB cable.
Desktop Laser (Non Network)	1200 dpi printing, 2 input trays, 35 ppm B&W holds 250 sheets includes USB cable.

B. Network Printers:

1. Must support TCP/IP protocol and PCL4 or higher

Network Laser for Classroom	Ethernet Connectivity PC and Mac Compatible 3 Input Trays 64MB exp to 320MB RAM 30 ppm in black, duplex built in, 10/100 ethernet, includes 10' ethernet cable.
Network Laser for Admin	Ethernet Connectivity PC and Mac Compatible 52 ppm, duplex built in, 10/100 ethernet 128Mb RAM includes 10' ethernet cable.
Network Color Laser	Ethernet Connectivity PC and Mac Compatible 30 ppm in color, includes 10' ethernet cable.
Multifunction All-In One (Digital Sender)	Black and white printing and copying, color scanning, analog faxing, digital sending, 3 paper trays, 128MB RAM Up to 35 ppm, duplex built in, 10/100 ethernet, includes 10' ethernet cable.