

Computer Hardware Standards

This document summarizes the Technology Standards and Services Task Force recommendations for computer hardware. The University recognizes that hardware is in constant flux and, consequently, is committed to revising these standards on a regular basis. These specifications are for new purchases only. The evaluation and upgrade of existing systems is performed through the Technology Replacement Program, in accordance with established life cycles. Replacement of systems due to software requirements is evaluated separately, based on need and funding.

Specifications

Rather than formulate specific hardware configurations or specify specific make/models, the University provides *minimum* configurations for computer systems and components. This document provides Desktop and Laptop specifications for the majority of users. The specific hardware configurations are as follows:

Windows Computer Configurations

Standard Configuration	
PC Desktop (Dell)	<ul style="list-style-type: none"> ▪ Intel Core 2 Duo 2.93 GHz Processor / 1066MHz,FSB ▪ 4 GB, DDR2-800 SDRAM ▪ 250GB SATA hard drive ▪ No Floppy Drive ▪ Dell USB Keyboard ▪ Dell USB 2-Button Optical Mouse with Scroll Wheel ▪ 17" Flat Panel LCD Widescreen (16:9 format) Monitor ▪ Integrated Video adapter ▪ Integrated 100/1000 MB Ethernet adapter ▪ Integrated USB 2 controller ▪ 16X +/-RW DVD <p>Reference model: Dell OptiPlex GX790 w/1707 TFT LCD monitor¹</p>
PC Laptop (Dell)	<ul style="list-style-type: none"> ▪ Intel Core 2 Duo P8600, 2.40GHz / 1066MHz FSB ▪ 3 GB, DDR2-800 SDRAM ▪ 14.1 inch Widescreen WXGA (1280x800) LED Display ▪ Mobile Intel Integrated Graphics Media Accelerator 4500MHD ▪ Integrated 2.0 megapixel webcam with single digital microphone ▪ 160GB Hard Drive 9.5MM,7200RPM ▪ 8X DVD+/-RW Optical Drive ▪ Integrated USB 2.0 controller ▪ Integrated Bluetooth 2.1 controller ▪ Intel WiFi Link 5300 (802.11 b/g 3X3) 1/2 MiniCard <p>Reference Model: Latitude E6400²</p>

¹ Based on Dell Quote 523187845, 1/5/10

² Ibid.

Apple Computers and Special Configurations

Standard Configuration	
Mac Desktop (iMac)	<ul style="list-style-type: none"> ▪ Intel Core 2 Duo 3.06 GHz Processor / 1066MHz,FSB ▪ 4 GB, DDR2-800 SDRAM ▪ 500GB SATA hard drive ▪ No Floppy Drive ▪ Apple Wireless Keyboard ▪ Dell USB 2-Button Optical Mouse with Scroll Wheel ▪ 17" Flat Panel LCD Widescreen (16:9 format) Monitor ▪ Integrated Video adapter ▪ Integrated 100/1000 MB Ethernet adapter ▪ Integrated USB 2 controller ▪ 8X +/-RW Double-layer Superdrive <p>Reference model³: Apple 21.5-inch iMac</p>
Mac Laptop (Desktop replacement)	<ul style="list-style-type: none"> ▪ Intel Core 2 Duo P8600, 2.53GHz ▪ 4 GB, DDR3 SDRAM ▪ 15 inch Widescreen LED Display ▪ Mobile Intel Integrated Graphics Media Accelerator 4500MHD ▪ Integrated webcam / microphone ▪ 320GB Hard Drive 5400RPM ▪ 8X +/-RW Double-layer Superdrive ▪ Integrated USB 2.0/FW controller <p>Reference Model⁴: Apple MacBook Pro 15</p>
Mac Laptop (Supplemental)	<ul style="list-style-type: none"> ▪ Intel Core 2 Duo P8600, 2.26GHz ▪ 4 GB, DDR3 SDRAM ▪ 15 inch Widescreen LED Display ▪ Mobile Intel Integrated Graphics Media Accelerator 4500MHD ▪ Integrated webcam / microphone ▪ 250GB Hard Drive 5400RPM ▪ 8X +/-RW Double-layer Superdrive ▪ Integrated USB 2.0/FW controller <p>▪ Reference Model⁵: Apple MacBook Pro 15</p>

Alternate computer systems and configurations, such as high-end Dell systems may be ordered based on the requesting department's budget, specific need not met by the existing standard, and the approval of the Assistant VP for Information Technology. Please contact the University Help Desk for assistance in developing specifications for the purchase.

Important Notes

- NJCU currently has a desktop and laptop purchasing agreement with Dell Computers. In the interest of providing the most efficient hardware support possible, Windows systems from other manufacturers will not be allowed without justification, approval, and appropriate funding.
- Whenever possible bulk purchasing should be pursued. This reduces the overall cost and minimizes the diversity of configurations on campus.

³ Based on 3/9/10 Apple Online Store quote

⁴ Ibid.

⁵ Ibid.

- Computer purchases must include the operating system (OS). To reduce OS diversity, please order systems with Windows XP Pro SP3.
- While 17" LCD monitors are the current standard, 19 and 22 inch wide-screen (16:9 aspect ratio) LCD monitors may be requested. Approval is based on need and current budget constraints.
- When requesting upgrade systems, *please re-use existing monitors and other peripherals whenever possible.*

Printers

The Technology Standards & Services Task Force recommends and strongly encourages the use of the departmental high-speed, high-volume, multi-function laser printers. Multi-function printers also serve as document scanners, copiers, and facsimile devices. While individual desktop inkjet printers are extremely affordable, replacement ink cartridges for these units represent a significant long-term expenditure for the University and should be avoided.