

# CSULB Minimum Hardware Standards

## STANDARDS

Desktops Standards (Revised Date 02/28/2017)				
	Low	Medium	High	
Dell Model	Optiplex	Optiplex	Dell Precision	
HP Model	Elite	Elite	Elite	
Operation System	Refer to software Standard	Refer to software Standard	Refer to software Standard	
Processor Type	Core i5	Core i7	Xeon E5	
Number of Cores	Quad Core	Quad Core	Quad Core	
Graphics System	Integrated (HDMI or DP)	Integrated (HDMI or DP)	Dedicated Card	
Support for Dual Monitors?	Yes	Yes	Yes	
RAM	8 GB DDDR3 (PC3-1333)	16 GB DDR3 (PC3-1600)	16 GB DDR3 (PC3-1600)	
Hard Drive #1	256 SSD	256 SSD	256 SSD	
Hard Drive #2	Optional	Optional	Optional	
Optical Drive	Optional	Optional	Optional	
Keyboard	USB Standard	USB Standard	USB Standard	
Mouse	Laser	Laser	Laser	
vPro Management Ready	Standard	Standard	Standard	
Monitor	22 minimum diag	22 minimum diag	24 minimum diag	
Speakers	Optional	Optional	Optional	
Warranty	3/3/3 (parts/labor/on-site repair) Dell 1yr, 3yr optional	3/3/3 (parts/labor/on-site repair) Dell 1yr, 3yr optional	3/3/3 (parts/labor/on-site repair) Dell 1yr, 3yr optional	
Energy Star® / EPEAT®	Preferred	Preferred	Preferred	
Windows Laptop Standards (Revised Date 02/28/2017)				
	Low	Medium	High	
Dell Model	Latitude	XPS	Precision	
HP Model	Pro	Folio	Elite	
Operation System	Current OSx64 Preferred	Current OSx64 Preferred	Current OSx64 Preferred	
Processor Type	i3	i5	i7	
Graphic System	Integrated	1 GB	2 GB	
Monitor Support	Yes	Yes	Yes	
RAM	8 GB	8 GB	16 GB	
Hard Drive	256 SSD	256 SSD	320 SSD	
Optical Drive	Optional	Optional	No	
Camera/Mic	Yes	Yes	Yes	

Media Card Reader	Optional	Optional	Optional	
Warranty	3/3/3 (parts/labor/on-site repair)  Dell 1yr, 3yr optional	3/3/3 (parts/labor/on-site repair)  Dell 1yr, 3yr optional	3/3/3 (parts/labor/on-site repair)  Dell 1yr, 3yr optional	
Energy Star® / EPEAT®	Preferred	Preferred	Preferred	

#### Apple Standards (Revised Date 04/25/2017)

	Low	Medium	High	
Apple Model	iMac 21.5	iMac 27	Mac Pro	
Operation System	Current macOS	Current macOS	Current macOS	
Processor Type	Core i5	Core i5	Xeon E5	
Graphics System	Integrated (HDMI or DP)	Dedicated Card	Dedicated Card	
Monitor Support	Yes	Yes	Yes	
RAM	8 GB LPDDR3	8 GB LPDDR3	16 GB LPDDR3	
Hard Drive	1TB HDD	1TB HDD	1TB HDD	
Optical Drive	N/A - Separate	N/A - Separate	N/A - Separate	
Keyboard	Bluetooth Standard - USB Optional	Bluetooth Standard - USB Optional	N/A - Separate	
Mouse	Bluetooth Standard - USB Optional	Bluetooth Standard - USB Optional	N/A - Separate	
Monitor	21.5	27	N/A - Separate	
Speakers	Standard	Standard	N/A - Separate	
Warranty	Apple 1yr, AppleCare 3yr optional	Apple 1yr, AppleCare 3yr optional	Apple 1yr, AppleCare 3yr optional	
Energy Star® / EPEAT®	Energy Star® / EPEAT®	Energy Star® / EPEAT®	Energy Star® / EPEAT®	

#### Apple Laptop Standards (Revised Date 04/25/2017)

	Low	Medium	High	
Apple Model	MacBook Air 13	MacBook Pro 13	MacBook Pro 15	
Operation System	Current macOS	Current macOS	Current macOS	
Processor Type	i5	i5	i7	
Graphics System	Integrated	Integrated	Dedicated	
Monitor Support	Yes	Yes	Yes	
RAM	8 GB	8 GB	16 GB	
Hard Drive	128GB SSD	256GB SSD	512GB SSD	
Optical Drive	N/A - Separate	N/A - Separate	N/A - Separate	
Camera/Mic	Yes	Yes	Yes	
Media Card Reader	N/A	N/A	N/A	
Warranty	Apple 1yr, AppleCare 3yr optional	Apple 1yr, AppleCare 3yr optional	Apple 1yr, AppleCare 3yr optional	
Energy Star® / EPEAT®	Energy Star® / EPEAT®	Energy Star® / EPEAT®	Energy Star® / EPEAT®	

#### Tablet Standards (Revised Date 02/28/2017)

	<b>Apple Ipad Pro</b>	<b>Microsoft Surface</b>	<b>HP Chrome Book</b>	<b>Dell Latitude</b>
Storage	32 GB	64 GB	16 GB	16 GB
Data Plan	Optional	No	No	No
USB Port	No	Standard	Standard	
Micro SD slot	No	Standard	Standard	
WIFI	Standard	Standard	Standard	Standard
<b>Printer Standards (Revised Date 02/28/2017)</b>				
Printers	<a href="#">HP Selection Utility</a>	Business Models must be selected		
Energy Star® / EPEAT®	Preferred			
<b>AV Standards (Revised Date 06/02/2017)</b>				
Vendor	Extron Electronics			
Digital Projector	Epson, Panasonic, Sony, Hitachi			
Lamp	4500 lumens			
Video connection	HDMI, VGA, RS262, HDBase T			
Standard Lecture Rooms	Spectrum Freedom One Life Lectern			