



# Northern Marianas College

INFORMATION TECHNOLOGY DEPARTMENT

P.O. Box 501250 • Saipan, MP 96950 U.S.A.

Phone: (670) 234-5498 • Fax: 670-234-5491

Web Site: [www.marianas.edu](http://www.marianas.edu)

**Note for PC Users:** Windows 10 Professional 64bit – English with the latest build is recommended. If you do not use any specialize administrative software. If an earlier Windows System is required consult with NMC IT on installation. **Any Form Factor (Tower, Small Form Factor, All-in-One, or Tiny)** that conforms to your workspace environment requirements is acceptable. UPS Power Protection is strongly recommended to ass your requisitions. Lastly to reduce overall costs a standard 1 or 2-year onsite warranty is acceptable.

## **Item #1: Recommended Specification for PC DESKTOP Users (Minimum)**

Expect to use the computer for basic productivity, running multiple applications such e-mail, web browsing, word processing, music and video players, and photo organization.

Category	Description
<b>Processor</b>	Intel Core i5 Quad Core Processor
<b>Memory</b>	At least 8GB DDR4
<b>Hard Drive</b>	At least 500GB SATA3 Hard Disk (7200 RPM)
<b>Optical Drive</b>	Slim DVD Burner/CD-RW, SATA (optional)
<b>Ethernet</b>	Integrated Gigabit Ethernet
<b>Monitor</b>	22" LCD display with Energy Star Rating
<b>Video Card/VRAM</b>	128MB video RAM
<b>Ports</b>	At least 4 USB 3.0 ports, Display port with Graphic Dongle VGA (for SFF) or HDMI
<b>Power Protection</b>	750 VA UPS Battery Backup
<b>Operating System</b>	Windows 10 Professional 64bit – English, with latest service pack
<b>Software</b>	Microsoft Office Professional 2016 (Academic or Volume License)
<b>Warranty</b>	1 – 3 years onsite next business day manufacturer's warranty



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## **Item #2: Recommended Specification for PC LAPTOP Users (Minimum)**

Expect to use the computer for basic productivity, running multiple applications such e-mail, web browsing, word processing, music and video players, and photo organization.

<b>Category</b>	<b>Description</b>
<b>Processor</b>	Intel Core i5 Quad Core Processor
<b>Memory</b>	At least 8GB DDR4
<b>Hard Drive</b>	256GB Solid State Drive OPAL 2.0 PCIe-NVMe
<b>Optical Drive</b>	DVD Recordable optional
<b>Ethernet</b>	Gigabit Ethernet
<b>Wireless</b>	Intel dual band Wireless AC 8265 (2x2), Bluetooth 4.1, vPro
<b>Graphics</b>	Intel HD Graphics 620
<b>Ports</b>	At least 3 USB 3.0 ports, HDMI, Native RJ45, MicroSD, MicroSIM, 2 Intel Thunderbolt 3
<b>Battery</b>	3 to 6-cell battery
<b>Integrated Fingerprint Reader</b>	Wherever available
<b>Physical Protection</b>	Laptop travel case or bag
<b>Operating System</b>	Windows 10 Professional 64bit – English, with latest service pack
<b>Software</b>	Microsoft Office Professional 2016 (Academic or Volume License)
<b>Warranty</b>	1 – 3 years onsite next business day manufacturer's warranty



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## **Item #3: Recommended Specification for MAC DESKTOP Users (Minimum)**

Expect to use the iMac for basic productivity, running multiple applications such as e-mail, web browsing, word processing, spreadsheets, and presentations.

<b>Category</b>	<b>Description</b>
<b>Processor</b>	iMac 21.5" (diagonal) Retina 4K display 4096 x 2034 resolution (500nits brightness) 3.0 GHz quad-core Intel Core i5
<b>Memory</b>	8GB of 2400MHz DDR4 onboard Memory
<b>Hard Drive</b>	1TB 5400 RPM Hard Drive Configurable up to 1TB Fusion Drive or 256GB of flash storage (SSD)
<b>Graphics</b>	Radeon Pro 555 with 2GB VRAM
<b>Ethernet</b>	Gigabit Ethernet
<b>Ports</b>	At least 4 USB 3.0 ports, 2 Thunderbolt 3 (USB-C ports) 2x Display ports (DVI or HDMI)
<b>Power Protection</b>	750 VA UPS Battery Backup
<b>Audio</b>	Stereo Speakers, dual microphones, 3.5mm headphone jack
<b>Operating System</b>	macOS High Sierra
<b>Software</b>	Microsoft Office Professional 2016 (Academic or Volume License)
<b>Warranty</b>	1 – 3 year AppleCare Protection Plan



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## **Item #4: Recommended Specification for MAC LAPTOP Users (Minimum)**

Expect to use the computer for basic productivity, running multiple applications such e-mail, web browsing, word processing, music and video players, and photo organization.

<b>Category</b>	<b>Description</b>
<b>Model</b>	13.3" diagonal backlit with Intel Iris Plus Graphics 640 MacBook Pro
<b>Processor</b>	2.3 GHz Intel dual Core i5 with 3MB cache
<b>Memory</b>	At least 8GB RAM
<b>Hard Drive</b>	At least 256GB SSD
<b>Optical Drive</b>	Superdrive
<b>Ethernet</b>	2 Apple Thunderbolt 3 ports with 1 Gigabit Ethernet Adapter
<b>Wireless</b>	802.11 ac a/g/n (WPA2 Enterprise-compatible) with Bluetooth 4.2
<b>Physical Protection</b>	Laptop travel case or bag
<b>Operating System</b>	macOS High Sierra
<b>Software</b>	Microsoft Office Professional 2016 (Academic or Volume License)
<b>Warranty</b>	1 – 3 year AppleCare Protection Plan



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## **Item #5: Recommended Specification for PC DESKTOP Users (Power Users)**

In addition to the tasks above, expect to use the computer for resource intensive programs for audio/video editing, graphic design, running multiple operating systems, storing large multimedia files and other processor or storage intensive situations or applications.

<b>Category</b>	<b>Description</b>
<b>Processor</b>	Intel Core i7 Quad Core Processor
<b>Memory</b>	16GB expandable to 32GB DDR4
<b>Hard Drive</b>	At least 1TB SATA III Hard Disk (7200 RPM)
<b>Optical Drive</b>	DVD Burner/CD-RW, SATA (optional)
<b>Ethernet</b>	Integrated Gigabit Ethernet
<b>Monitor</b>	At least 21" LED backlit LCD display, with Energy Star 6.0 rating plus (VGA, DVI, or HDMI)
<b>Video Adapter</b>	Integrated Graphics Card or NVIDIA GeForce GT73030, 2GB, DDR5 64bit DP Low Profile
<b>Ports</b>	At least 4 USB 3.0 ports, 2x Display ports (DVI or HDMI)
<b>Power Protection</b>	750 VA UPS Battery Backup
<b>Operating System</b>	Windows 10 Professional 64bit – English, with latest service pack
<b>Software</b>	Microsoft Office Professional 2016 (Academic or Volume License)
<b>Warranty</b>	1 – 3 years onsite next business day manufacturer's warranty



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## **Item #6: Recommended Specification for PC LAPTOP Users (Power Users)**

In addition to the tasks above, expect to use the computer for resource intensive programs for audio/video editing, graphic design, running multiple operating systems, storing large multimedia files and other processor or storage intensive situations or applications.

<b>Category</b>	<b>Description</b>
<b>Processor</b>	Intel Core i7 Quad Core Processor
<b>Memory</b>	At least 16GB DD4
<b>Hard Drive</b>	1TB Solid State Drive OPAL 2.0
<b>Optical Drive</b>	DVD Recordable optional
<b>Ethernet</b>	Gigabit Ethernet
<b>Wireless</b>	Intel dual band Wireless AC 8265 (2x2), Bluetooth 4.1, vPro
<b>Graphics</b>	Intel HD Graphics 620
<b>Ports</b>	At least 3 USB 3.0 ports, HDMI, Native RJ45, MicroSD, MicroSIM, 2 Intel Thunderbolt 3
<b>Battery</b>	3 to 6-cell battery
<b>Integrated Fingerprint Reader</b>	Wherever available
<b>Physical Protection</b>	Laptop travel case or bag
<b>Operating System</b>	Windows 10 Professional 64bit – English, with latest service pack
<b>Software</b>	Microsoft Office Professional 2016 (Academic or Volume License)
<b>Warranty</b>	1 – 3 years onsite next business day manufacturer's warranty



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## **Item #7: Recommended Specification for MAC DESKTOP Users (Power Users)**

In addition to the tasks above, expect to use the computer for resource intensive programs for audio/video editing, graphic design, running multiple operating systems, storing large multimedia files and other processor or storage intensive situations or applications.

<b>Category</b>	<b>Description</b>
<b>Processor</b>	iMac 27" (diagonal) Retina 5K display (500nits brightness) 5120 x 2880 resolution 4.2 GHz quad-core Intel Core i7
<b>Memory</b>	8GB of 2400MHz DDR4 onboard Memory; 4 SO-DIMM slots
<b>Hard Drive</b>	1TB Fusion Drive Configurable up to 3TB Fusion Drive or up to 1 TB of flash storage (SSD)
<b>Graphics</b>	Radeon Pro 575 with 4GB of VRAM
<b>Ethernet</b>	Gigabit Ethernet
<b>Ports</b>	At least 4 USB 3.0 ports, 2 Thunderbolt 3 (USB-C ports) 2x Display ports (DVI or HDMI)
<b>Power Protection</b>	750 VA UPS Battery Backup
<b>Audio</b>	Stereo Speakers, microphone, 3.5mm headphone jack
<b>Operating System</b>	MacOS High Sierra
<b>Software</b>	Microsoft Office Professional 2016 (Academic or Volume License)
<b>Warranty</b>	1 – 3 year AppleCare Protection Plan



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## **Item #8: Recommended Specification for MAC LAPTOP Users (Power Users)**

In addition to the tasks above, expect to use the computer for resource intensive programs for audio/video editing, graphic design, running multiple operating systems, storing large multimedia files and other processor or storage intensive situations or applications.

<b>Category</b>	<b>Description</b>
<b>Model</b>	15.4" diagonal LED backlit with IPS technology 2880 by 1800 MacBook Pro
<b>Processor</b>	2.9 GHz Quad Intel Core i7
<b>Memory</b>	16GB RAM
<b>Hard Drive</b>	At least 512GB PCIe based SSD
<b>Optical Drive</b>	Superdrive
<b>Ethernet</b>	4 Apple Thunderbolt 3 ports with 1 Gigabit Ethernet Adapter
<b>Wireless</b>	802.11 ac a/g/n (WPA2 Enterprise-compatible) with Bluetooth 4.2
<b>Physical Protection</b>	Laptop travel case or bag
<b>Operating System</b>	MacOS High Sierra
<b>Software</b>	Microsoft Office Professional 2016 (Academic or Volume License)
<b>Warranty</b>	1 – 3 year AppleCare Protection Plan