



## Digital Media & IT Laptop Requirement

Effective Fall 2023 and beyond, DMIT Students are **required** to purchase a laptop to complete assignments both in and out of the classroom. Failure to meet the minimum requirements will result in the inability to successfully complete coursework which will result in the inability to successfully complete a diploma.

Technology requirements and specifications vary depending on your concentration; please find your concentration listed below to ensure your device meets program requirements

**Note: The laptop is required ON THE VERY FIRST DAY OF CLASSES in every semester.**

For specific program related questions please contact [DMIT@nait.ca](mailto:DMIT@nait.ca). For all technical questions, please visit [nait.ca/ITS](http://nait.ca/ITS).

### Concentration-Specific Laptop Requirements

Animation - Laptop Requirement	
Operating System	Windows 10 64-Bit (No S Version) or newer. macOS is not supported
Processor	Intel 8th gen or newer, Core i7 or greater
RAM	32GB or more
Hard Drive	512GB or larger SSD (1TB Recommended)
Graphics	Discrete graphics card required. GeForce RTX 2060 or AMD RX 5700 or greater. Refer to the <a href="http://Unreal Engine">Unreal Engine</a> website for a detailed list of recommended systems and graphics cards. RTX 3050 or higher is recommended
Display	15" or larger with 1920 x 1080 or greater screen resolution
Network	Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax)
Camera	720p webcam or greater with microphone
Other Hardware Notes	External Keyboard and 3 Button Mouse Recommended, 2 x USB 3.1 port available or USB hub needed

Computer Software Development - Laptop Requirement	
Operating System	Windows 10 64-Bit (No S Version) or newer. macOS is not supported
Processor	Intel 8th gen or newer, Core i7 or greater
RAM	32GB or more
Hard Drive	512GB or larger SSD (1TB Recommended)
Graphics	Onboard video or greater
Display	15" or larger with 1920 x 1080 or greater screen resolution
Network	Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax)
Camera	720p webcam or greater with microphone
Other Hardware Notes	External Keyboard and 3 Button Mouse Recommended, 2 x USB 3.1 port available or USB hub needed

Digital Cinema - Laptop Requirement:	
<b>Operating System</b>	Windows 10 64-Bit (No S Version) or newer. OSX Monterey or greater
<b>Processor</b>	Intel 8th gen or newer, Core i7 or greater. Apple M1 or greater
<b>RAM</b>	16GB or more
<b>Hard Drive</b>	512GB or larger SSD (1TB Recommended)
<b>Graphics</b>	Discrete graphics card required. GeForce RTX 2060 or AMD RX 5700 or greater. Refer to the <a href="#">Premier Pro</a> website for a detailed list of recommended systems and graphics cards.
<b>Display</b>	1920 x 1080 or greater screen resolution
<b>Network</b>	15" or larger with Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax)
<b>Camera</b>	720p webcam or greater with microphone
<b>Other Hardware Notes</b>	ASIO compatible or Microsoft Windows Driver Model soundcard

Games Design - Laptop Requirement:	
<b>Operating System</b>	Windows 10 64-Bit (No S Version) or newer. macOS is not supported
<b>Processor</b>	Intel 8th gen or newer, Core i7 or greater.
<b>RAM</b>	32GB or more
<b>Hard Drive</b>	1TB or larger SSD
<b>Graphics</b>	Discrete graphics card required. GeForce RTX 2060 or AMD RX 5700 or greater. Refer to the <a href="#">Unreal Engine</a> website for a detailed list of recommended systems and graphics cards. RTX 3050 or higher is recommended
<b>Display</b>	15" or larger with 1920 x 1080 or greater screen resolution
<b>Network</b>	Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax)
<b>Camera</b>	720p webcam or greater with microphone
<b>Other Hardware Notes</b>	External Keyboard and 3 Button Mouse Recommended, 2 x USB 3.1 port available or USB hub needed

Games Programming - Laptop Requirement:	
<b>Operating System</b>	Windows 10 64-Bit (No S Version) or newer. macOS is not supported
<b>Processor</b>	Intel 8th gen or newer, Core i7 or greater.
<b>RAM</b>	32GB or more
<b>Hard Drive</b>	1TB or larger SSD
<b>Graphics</b>	Discrete graphics card required. GeForce RTX 2060 or AMD RX 5700 or greater. Refer to the <a href="#">Unreal Engine</a> website for a detailed list of recommended systems and graphics cards. RTX 3050 or higher is recommended
<b>Display</b>	15" or larger with 1920 x 1080 or greater screen resolution
<b>Network</b>	Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax)
<b>Camera</b>	720p webcam or greater with microphone
<b>Other Hardware Notes</b>	External Keyboard and 3 Button Mouse Recommended, 2 x USB 3.1 port available or USB hub needed

IT Business Analysis - Laptop Requirement:	
<b>Operating System</b>	Windows 10 64-Bit (No S Version) or newer. macOS is not supported
<b>Processor</b>	Intel 8th gen or newer, Core i5 or greater. (Core i7 Recommended)
<b>RAM</b>	16GB or more
<b>Hard Drive</b>	512GB or larger SSD (1TB Recommended)
<b>Graphics</b>	Onboard video or greater
<b>Display</b>	1920 x 1080 or greater screen resolution
<b>Network</b>	Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax)
<b>Camera</b>	720p webcam or greater with microphone
<b>Other Hardware Notes</b>	External Keyboard and 3 Button Mouse Recommended, 2 x USB 3.1 port available or USB hub needed

System Administration - Laptop Requirement:	
<b>Operating System</b>	Windows 10 64-Bit (No S Version) or newer. macOS is not supported
<b>Processor</b>	Intel 8th gen or newer, Core i7 or greater. Virtualization capable
<b>RAM</b>	32GB or more
<b>Hard Drive</b>	512GB or larger SSD (1TB Recommended)
<b>Graphics</b>	Onboard video or greater
<b>Display</b>	1920 x 1080 or greater screen resolution
<b>Network</b>	Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax). Onboard Wired Network or USB Network Adapter Required.
<b>Camera</b>	720p webcam or greater with microphone
<b>Other Hardware Notes</b>	1TB or greater External SSD Drive Recommended.

Visual Communications - Laptop Requirement:	
<b>Operating System</b>	Windows 10 64-Bit (No S Version) or newer. OSX Monterey or greater
<b>Processor</b>	Intel 8th gen or newer, Core i7 or greater. Apple M1 or greater
<b>RAM</b>	16GB or more
<b>Hard Drive</b>	512GB or larger SSD (1TB Recommended)
<b>Graphics</b>	Discrete graphics card required. GeForce RTX 2060 or AMD RX 5700 or greater. Refer to the <a href="#">Premier Pro</a> website for a detailed list of recommended systems and graphics cards.
<b>Display</b>	1920 x 1080 or greater screen resolution
<b>Network</b>	Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax)
<b>Camera</b>	720p webcam or greater with microphone
<b>Other Hardware Notes</b>	ASIO compatible or Microsoft Windows Driver Model soundcard

<b>Web Development - Laptop Requirement:</b>	
<b>Operating System</b>	Windows 10 64-Bit (No S Version) or newer. OSX Monterey or greater
<b>Processor</b>	Intel 8th gen or newer, Core i5 or greater. (Core i7 Recommended) Apple M1 or greater
<b>RAM</b>	16GB or more
<b>Hard Drive</b>	512GB or larger SSD (1TB Recommended)
<b>Graphics</b>	Onboard video or greater
<b>Display</b>	1920 x 1080 or greater screen resolution
<b>Network</b>	Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax)
<b>Camera</b>	720p webcam or greater with microphone
<b>Other Hardware Notes</b>	External Keyboard and 3 Button Mouse Recommended, 2 x USB 3.1 port available of USB hub needed

#### **Additional Requirements:**

- Method for Backup Storage of Files – 500GB or larger USB external hard drive or cloud storage such as OneDrive. Microsoft Office 365 and OneDrive (with 1TB of space) is free for all currently enrolled NAIT students.

#### **Notes from our Tech Department:**

- Please use only SSD or M.2 storage technology for your boot/primary device, as using a different storage technology will diminish the performance of your laptop.
- Windows Defender is the recommended anti-virus software. Installing some 3<sup>rd</sup> party anti-virus and anti-malware packages might interfere with some of the applications you use for our program.

#### **Software Requirements:**

- Software requirements will be discussed in class and will vary for each concentration.

#### **Please be aware that:**

- Students are responsible for the maintenance, service, and repair of their laptop(s).
- NAIT takes no responsibility for hardware or software compliance.

### **Which brand or manufacturer of laptops would you recommend?**

*Over the years, students have purchased many different brands, and there seems to be no noticeable difference in reliability. Manufacturers use the same hardware, so if the brand you purchased meets the minimum specifications, it should be sufficient.*

### **How much should I spend?**

*Budget \$1,500 to \$3,500 for the purchase of your laptop. The price will vary depending on the brand, hardware options, and program concentration (Animation, Software Development, etc.).*

For specific program related questions please contact [DMIT@nait.ca](mailto:DMIT@nait.ca). For all technical questions, please visit [nait.ca/ITS](http://nait.ca/ITS).

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