Laptop and Internet Specifications
Full Stack Web Development

Your program requires you to use a laptop computer for your courses – both for on-campus and remote learning. Your computer must meet or exceed the specifications in this table to meet the software requirements for courses.

Component	Minimum	Considerations
Operating System	Windows 10 64-bit (Home or Pro) *OR* Windows 11 (Home or Pro) English or bilingual version of Windows is required.	Your laptop must have one of these versions of the Microsoft Windows operating system. Please install all required updates for Microsoft Windows. If your laptop does not come with Windows, you are eligible for a free version as a student of RRC Polytech. Contact FullStackCE@RRC.CA to get this. We do not recommend Mac. If you already own a Mac laptop, contact us to see if it meets the requirements. You may encounter significant differences in software when using a Mac and will be responsible for adapting to meet course requirements.
Processor – option 1	Intel Core i5 (or Evo i5) - 8th generation or later	An Intel i5 processor (8th generation or later) is the minimum required to run software used in the programs.
Processor – option 2	AMD Ryzen 5	An AMD Ryzen 5 is the minimum required to run software used in the programs.
Memory (RAM)	16 GB RAM	Memory is a relatively inexpensive upgrade that can result in a significant performance increase.
Solid-State Drive (SSD) or Hard Disk Drive (HDD)	750 GB SSD (or HDD) with at least 400 GB of free space	A solid-state drive (SSD) is an option that offers significant speed improvement over a hard disk drive (HDD) – especially for boot-up time.
USB Ports	Two available USB ports	USB ports are for connecting peripheral and input devices such as a mouse, or an external keyboard.

Ethernet (LAN) port And Ethernet cable	RJ-45 Gigabit Ethernet port, and an Ethernet cable	If your laptop does not have an Ethernet port, you will need a USB to Gigabit Ethernet adapter. When you are on campus, you may sometimes need to use a wired connection instead of relying on Wi-Fi. At home, a wired connection may also offer faster Internet speed.
Wi-Fi wireless networking	Wi-Fi 6	RRC Polytech campuses have free wireless (Wi-Fi) network access in addition to wired connections. Your laptop should support the latest standard in Wi-Fi technology, which is Wi-Fi 6.
Screen Size	13 inches	Consider advantages of a larger screen size as well as the maximum display resolution that your laptop supports. Also, consider that larger laptops may weigh more.
Mouse		We recommend an external mouse. You may want to consider a wireless (Bluetooth) mouse.
Camera and Microphone		A camera and microphone are required to interact with your Instructors and classmates during online classes. (These are often built-in to laptop computers.)
High-speed Internet connection at home		You will need a high-speed Internet connection for online learning. We use Microsoft Teams for online classes.

Tips on selecting a laptop

Spend some time reading reviews online. Consider the upgradability of the laptop: for example, if you decide to go with the minimum amount of memory (RAM), can you later easily add more? Consider purchasing warranty coverage on your laptop. RRC Polytech does not have facilities to assist with computer repair.

Please also consider these factors:

- o **Battery life**. How long can you use the laptop before charging it? You may not always have easy access to an electrical outlet.
- o **Ergonomics**. Consider the weight of the laptop, keyboard layout, mouse, screen size, etc. You will need to carry your laptop around.
- o It is your responsibility to perform daily backups to an external source so that you do not lose your work if your computer fails. You may use a USB flash drive, external hard drive, or a cloud-based backup solution.

For additional support or questions, please contact us by email at FullStackCE@RRC.CA