

Hardware

Each classroom should be equipped with an individual computer workstation for each student and the instructor. The following table summarizes the hardware requirements for all courses in the CIW program.

Note: The CIW hardware requirements are similar to the minimum system requirements for Microsoft Windows 10 implementation.

Hardware Specifications	Minimum Requirements
Processor	1 GHz 32-bit (x86) or 64-bit (x64) processor
Hard disk	16 GB available hard disk space (32-bit) or 20 GB available hard disk space (64-bit) for Windows 8 installation. 16 GB of additional space must be available for course applications and files.
RAM	1 GB RAM (32-bit) or 2 GB RAM (64-bit)
Network interface card (NIC)	Wireless, 10/100 Ethernet, or Gigabit Ethernet
Sound card/speakers	Required
Video adapter	Microsoft DirectX 9 graphics device with WDDM driver
Network connectivity	Enough wireless nodes, hubs or switches to allow classroom computers to communicate and access the Internet.
Monitor	1024 x 768 screen resolution using a VGA, DVI or HDMI connector
Web camera (Web cam)	Any type of Web camera. Some monitors include an internal Webcam. USB Web cams are a good choice.

Software

The following table details the required software and evaluation versions of applications used in the course.

Software	Obtain From	Pricing Information <i>Note: All software must be properly licensed before classroom implementation</i>
Operating Systems		
Microsoft Windows 10 Pro (or later)	www.microsoft.com	Windows 10 Pro: Contact Microsoft (www.microsoft.com) for information about volume licensing programs to purchase and manage multiple software licenses for five or more computers.
Software		
Microsoft Edge	www.microsoft.com	Edge is installed during the typical installation of Microsoft Windows 10. See: https://www.microsoft.com/en-us/edge
Mozilla Firefox 59 (or later)	www.mozilla.org	A free downloadable version is available at http://www.mozilla.com/en-US/firefox
Google Chrome (any version)	www.google.com/chrome	A free downloadable version is available at www.google.com/chrome .
* The prices listed are estimated retail prices; reseller pricing will vary. Pricing and offers are valid only in the United States and Canada		

Connectivity

Internet connectivity is required for this course. You will experience optimal performance with a dedicated Internet connection (e.g., a cable/DSL modem or a T1 line).