Computer Requirements

Students who enroll in the Computer Aided Drafting and Design program are required to purchase a laptop computer with the following specifications.

Windows

Specification	Minimum	Recommended
Operating System	Windows 10	Windows 10
Processor	Intel Core i5 2.4GHz or faster	Intel Core i7 3.2GHz or faster
RAM (Memory)	8GB	16GB or more
Hard Drive*	250GB or more	500GB or more
Graphics Card**	2GB Dedicated Video RAM	4GB Dedicated Video RAM or
Nvidia Quadro,	OpenGL 3.2 or better	more
AMD	OpenCL 1.2 or better	OpenGL 3.2 or better
FirePro, or AMD	DirectX12 or better	OpenCL 1.2 or better
Radeon Pro	Microsoft Direct3D 10 or better	DirectX12 or better
recommended		Microsoft Direct3D 11 or better
Monitor	1920 x 1080 or better	1920 x 1080 or better

^{*}Solid State Disk or SSD is highly recommended for best performance.

Please confirm with your PC manufacturer or supplier on whether your individual configuration meets or exceeds these specifications. North Central Texas College will not evaluate or make recommendations on hardware outside of this specification.

Minimum and Recommended Hardware Specifications [PDF]

Apple Macintosh

- Intel® Core i5 as a minimum. Core i7 suggested. Intel Only.
- Mac OS X v10.8 or greater
- Windows 10 *Separate retail purchase. Windows will need to be boot-camped onto Apple Macintosh
- 16GB of RAM minimum
- 500GB free hard disk space
- 1GB, OpenGL 3.2 and DirectX 11 compliant, Discrete Graphics Card as a minimum. 2GB suggested.

Required accessories

- Headset with microphone
- 6' Ethernet cable

^{**}On-Board Graphics such as Intel HD Graphics are not suitable to run CADD programs

Additional information

- AMD Processors may be used, but are not recommended by the college, and will not be supported by the College's Computer Services Department.
- Graphics Cards must support OpenGL 3.2 and DirectX 11 and have a minimum of 1GB of dedicated RAM. AMD or NVidia Graphics Cards are supported.
- Computer Aided Drafting and Design software run primarily on Windows. If you
 purchase an Apple Macintosh, you will need to purchase a supported retail copy of
 Microsoft Windows.
- Any existing hardware you own will need to meet the minimum specifications listed above. You may refer to our CADD software vendors for more information on Supported Hardware.
- Mastercam
- PTC
- AUTODESK
- SolidWorks

Students are free to buy any laptop that meets the above requirements. Here are some recommended websites:

NCTC Bookstore Computers – you can order one of these if it meets the requirements as stated.

https://www.bkstr.com/nocentraltxcorinthstore/shop/electronics/computers-tablets/desktops-laptops

Many manufacturers offer discount pricing.

- Apple: https://www.apple.com/us-hed/shop
- Dell: http://www.dell.com/en-us/learn/purchaseprogram/university
- Lenovo: https://www3.lenovo.com/us/en/landingpage/students-and-teachers/
- Microsoft: https://www.microsoft.com/en-US/store/b/education
- HP: https://store.hp.com/us/en