

Machine Tool Technology - Laptop Requirements Specifications

Computers are required by 1st day of the semester. These are minimum and recommended requirements. Students may source their computer from any vendor and can choose whichever brand, make or model of computer they personally desire. If students have questions about whether their laptop meet these specifications, please contact the IT department at (307) 675-0555 or the instructor.

Operating System

Windows 10, 64 bit, not "S Mode" – must be Windows Home or Pro

(Mac is not recommended because of additional software requirements to run windows based programs)

Processor

Intel Core i7 8th Generation or Newer

AMD RYZEN 5 or Newer (see link below for laptops with approved alternate video cards)

Memory

16 GB RAM (minimum), or higher

Hard Drive

256 GB, Solid State Drive (SSD) minimum, not a Hard Disk Drive (HDD)

512 GB or higher, Solid State Drive (SSD) recommended, not a Hard Disk Drive (HDD)

Display

15" minimum, 1920x1080 resolution or better

Video Card

NVIDIA Quadro (2 GB memory or more)

(Gaming-Class Video Cards, i.e. GTX 1650, Ryzen Vega, will not meet the software requirements and will not run the software we use, use the link below for laptops with approved video cards.

Utilize this link to verify an alternative video card

<https://www.solidworks.com/sw/support/videocardtesting.html>

Software

Free downloads for Microsoft Office Suite for all registered students. Machine Tool Faculty will provide you with free downloads for required software.

Other Requirements

Webcam (can be external unit), used for zoom meetings.

Wireless mouse

All students, staff and faculty must comply with the network acceptable rules of use found here:

https://mynwccd.sheridan.edu/Technology/ITS/Documents/NWCCD_Network_Rules_of_Acceptable_Use.pdf

Recommended Computer:

[https://smile.amazon.com/Lenovo-ThinkPad-20N6001UUS-Mobile-](https://smile.amazon.com/Lenovo-ThinkPad-20N6001UUS-Mobile-Workstation/dp/B07TY16GFV/ref=sr_1_3?dchild=1&keywords=20N6001UUS&qid=1620403491&sr=8-3)

[Workstation/dp/B07TY16GFV/ref=sr_1_3?dchild=1&keywords=20N6001UUS&qid=1620403491&sr=8-3](https://smile.amazon.com/Lenovo-ThinkPad-20N6001UUS-Mobile-Workstation/dp/B07TY16GFV/ref=sr_1_3?dchild=1&keywords=20N6001UUS&qid=1620403491&sr=8-3)

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