Machine Tool Technology - Laptop Requirements Specifications

*Computers are required by the 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.*

**Operating System (Required)**

Windows 10, 64 bit, not “S Mode” – Free downloads for Microsoft Office Suite for all registered students. Machine Tool Faculty will provide you with free downloads for all other required software.

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

***(No Chromebooks)***

**Processor**

Intel Core i5 (minimum) Intel Core i7 8th Generation or newer (recommended)

**Memory**

8 GB RAM (minimum) 16 GB RAM or higher (recommended)

**Hard Drive**

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

**Display**

15” (minimum)

**Ports/Accessories**

**Minimum of one USB port required**

**Power cord/power supply**

**Speakers, microphone, and web cam capabilities**

**Software**

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

**Other Requirements**

*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>

**Operating System (If you want to be able to use SolidWorks at home or off campus)**

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)***

***(No Chromebooks)***

**Processor**

Intel Core i7-8750H 3.3 GHz or higher (recommended)

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

Utilize this link to verify an alternative video card

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

**Memory**

20 GB RAM or higher (recommended)

**Hard Drive**

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

**Display**

15.6” (minimum)

**Video Card**

NVIDIA Quadro P1000 (minimum) or higher (recommended 2 GB memory or more)

AMD Radeon Pro WX 3100 (minimum)