

# DRAFTING AND DESIGN TECHNOLOGY COMPUTER REQUIREMENTS

## For Drafting, Design, Modeling, and Rendering Software

### NOTE:

The following are the hardware and software specifications for installing and supporting the design software used for courses taken in TSTC's Drafting and Design Technology programs, including Architectural/Civil Drafting, Architectural Design and Engineering Graphics, and Engineering Graphics and Design. For systems which do not meet Minimum-Level Requirements, please ask your instructor for more information.

System Requirements for 2024 Versions of AutoCAD, Revit, SolidWorks, and Lumion (Windows)	
<b>Operating System</b>	<b>REQUIRED:</b> Up-to-date Windows 10/11 (64-bit) or newer <b>(Mac OS computers and Chromebooks are NOT supported or recommended)</b>
<b>Processor (CPU)</b>	<b>Recommended:</b> Intel i-Series, Xeon, AMD Ryzen, Ryzen Threadripper PRO. 2.5 GHz or Higher. Highest CPU GHz recommended <b>Minimum:</b> Intel/AMD Processor scoring a single thread CPUMark of 2200 or higher (Such as the AMD Ryzen 5 1500X, Intel Core i7-3770K or better) Use the following link for reference: <a href="https://www.cpubenchmark.net/singleThread.html">https://www.cpubenchmark.net/singleThread.html</a>
<b>Memory (RAM)</b>	<b>Recommended:</b> 32GB or higher <b>Minimum:</b> 16GB or higher
<b>Display Resolution</b>	<b>Maximum:</b> UltraHigh (4k) Definition Monitor <b>Recommended:</b> 1920 x 1080 (1080p) or higher <b>Minimum:</b> 1280 x 1024 with true color
<b>Display Card (Video Graphics Card)</b>	<b>Recommended:</b> DirectX 11 capable graphics card with Shader Model 5. Graphics card scoring a G3DMark of 14,000 or higher with up-to-date drivers (NVIDIA GeForce RTX 2070, NVIDIA Quadro RTX 4000, AMD Radeon RX 5700XT or better). Use the following link for examples: <a href="https://www.videocardbenchmark.net/high_end_gpus.html">https://www.videocardbenchmark.net/high_end_gpus.html</a> <b>Minimum:</b> Minimum of 4 GB of video memory. Graphics card scoring a G3DMark of 7,000 or higher with up-to-date drivers (NVIDIA GeForce GTX 1650, Quadro K6000, AMD Radeon RX 470 or better).
<b>Graphics Card Memory</b>	<b>Recommended:</b> 8 GB or more <b>Minimum:</b> 4 GB or more
<b>Disk Space (Hard Drive)</b>	<b>Recommended:</b> 500 GB or more of free space (more recommended to store files) <b>Minimum:</b> 250 GB of free space
<b>Network</b>	<b>REQUIRED:</b> Internet service is required to activate all software. Internet service is required to launch SolidWorks and Lumion.
<b>Additional Requirements</b>	Microsoft compatible mouse (not a touchpad) <b>Hybrid Students:</b> Thunderbolt 3 compatibility or higher, headphones or earbuds

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