



Fay Jones School of Architecture + Design 2023-2024 Recommended Laptop Specifications

The Fay Jones School incorporates digital tools, techniques, and methods of design in the education of students beginning in the first year, across all departments and disciplines. These important approaches are integrated with a parallel emphasis on hand drawing and analog tools to provide a holistic education, one valued within the school and beyond, into professional practice. Due to this integrated approach and the mobility of our teaching and learning methods, the school asks all students to arrive at their design studies with a laptop computer of suitable capacity, memory, and capability for the demands of both design studio and classroom use. This machine will be a primary tool and resource for your studies.

Students will need a computer capable of running Autodesk Revit, Rhino 3D, Adobe Design Suite, Enscape, and other graphic-intensive applications for 4 to 5 years. Windows 10 Pro or higher is required to run Autodesk Revit and other BIM/CAD/CAM applications. Apple computers should NOT be purchased as your primary laptop as Macs do not support Autodesk Revit and other software that students may use while studying at the Fay Jones School of Architecture + Design.

Considering the balance between cost and performance, the school recommends two tiers of laptop specifications:

High performance offers more computing power at a higher cost.

Reliable performance offers reliable performance with graphics-intensive programs at a more affordable cost.

Both tiers will provide effective computing power for applications taught and used by the school. If you can afford it, we recommend the highest-performance laptop specification tier, as it will extend its usefulness for five years, better support Virtual Reality (VR), and future-proof your purchase for unforeseen experimental software that be available.

Note: Purchasing a laptop computer at a lower specification than the recommended Reliable Performance tier listed below will put a student at a disadvantage when using graphics-intensive software.

The UA Tech Store & Service Center has been consulted on these specifications and can assist you with either of these options. Purchasing from the UA Tech Store & Service Center is the most convenient route to take but you are free to purchase any brand from any retailer of your choice as long as the purchase matches or exceeds the specifications listed below. Pay special attention to the CPU processor, system memory, and graphics card (GPU). The graphics card (GPU) selection has the greatest impact on Laptop performance and price. When verifying if the graphics card meets recommendations, look at the brand, the amount of graphics card memory (VRAM), and the model number (such as GeForce RTX 3070).

Recommended Brands

Dell, Alienware (owned by Dell), MSI, Lenovo, and Microsoft.

The UA Tech Store & Service Center is an authorized repair center for Dell-branded computers. Laptops purchased from the UA Tech Store & Service Center come with a 4-Year Pro Support + service plan which includes accidental damage protection. Additionally, if you purchased your Dell branded laptop from another retailer, they are authorized to perform certified repairs covered by a Dell service plan. If you purchase a laptop from another retailer or from a brand directly, we recommend avoiding retailers or brands that require mailing in your laptop to have your laptop serviced. This will increase the wait time for repairs. We recommend that you obtain a service warranty that allows authorized service centers in the Fayetteville area to make repairs.

Software

Students will be expected to purchase software licenses during their time at Fay Jones School of Architecture + Design. Near the start of your first semester, expect to purchase an Adobe Suite subscription and a Rhino 3D license. Both software packages can be purchased through the UA Bookstore at a discounted price. Over the next few years, different courses may require the purchase of additional licenses, such as Vray or Enscape. Autodesk Revit is free for students for educational use.

Note: Windows Pro operating system is highly recommended to give students access to printing and plotting services at Fay Jones School of Architecture + Design.

Additional Accessories

You will need to purchase a three-button mouse, a 10' ethernet cable, a 6' 4K HDMI cable, and an HDMI adaptor (if needed) that fits your laptop. 3D modeling programs like Revit and Rhino require three-button mice and most studio desks are equipped with a large monitor and ethernet port.

High Performance - Higher Cost

For the highest performance and longest use value.

(Based on the high to the medium recommended spec for the highest demanding software - (VR capable specs)

Specifications	
CPU Processor	Intel® i-Series, Xeon®, AMD® Ryzen, Ryzen Threadripper PRO. 2.5GHz or Higher.
System Memory	32 GB RAM
Graphics Card (GPU)	NVIDIA GeForce RTX 3070 / Quadro RTX 5000 or an AMD equivalent GPU (eg. Radeon RX 6700 XT) (DirectX 11 capable graphics card with Shader Model 5 and supports OpenGL 4.6 or higher)
Graphics Card Memory (VRAM)	8 GB or higher
Storage	512GB SSD (Solid State Drive)
Operating System	64-bit Microsoft® Windows® 10 Pro or Windows 11 Pro
Display	NonTouch - 1920 x 1200 or higher

Reliable Performance - Lower Cost

For reliable performance at a more affordable cost.

(Based on the medium-level recommended spec for the highest demanding software.)

Specifications	
CPU Processor	Intel® i-Series, Xeon®, AMD® Ryzen, Ryzen Threadripper PRO. 2.5GHz or Higher.
System Memory	16 GB RAM
Graphics Card (GPU)	NVIDIA GeForce RTX 2070 / Quadro RTX 4000 or AMD equivalent (eg. Radeon RX 5700 XT) (DirectX 11 capable graphics card with Shader Model 5 and supports OpenGL 4.6 or higher)
Graphics Card Memory (VRAM)	4 GB or higher
Storage	512GB SSD (Solid State Drive)
Operating System	64-bit Microsoft® Windows® 10 Pro or Windows 11 Pro
Display	NonTouch - 1920 x 1200 or higher