

WVU Interior Design Program

Computer Expectation Policy: Class of 2023

(Issue date: May 15, 2020)

Introduction

Each student entering the second year of the interior design major is expected to use a personal LAPTOP COMPUTER system to complete assignments in the studio classrooms during class meetings. Each student is expected to provide the computer hardware and software necessary to meet this expectation, and **successful completion of required interior design studio courses is unlikely for students who do not meet this expectation according to the specifications provided below.**

The interior design studio is the primary place for learning how to design architectural interiors and for the exchange of design ideas. The goal of the laptop computer expectation policy is to integrate digital media into the design studio experience. Such integration is required for success in the design professions and maximizes design learning in the educational setting. The mobility of the laptop allows the student to easily and quickly transform a relatively small desk space into a variety of configurations suitable for hand-drawing, hand-drafting, design research, and design writing as well as digital drawing, graphic design, and design visualization. The battery-powered laptop allows for maximum computer use within environments with limited electrical power outlets and allows the student to keep the computer on their person for security reasons. Input devices (such as scanners) and output devices (such as printers and plotters) are available in campus computer laboratories.

Students may meet the computer expectation by purchasing, leasing, or borrowing a laptop computer loaded with the specified software. If a student decides to purchase a computer, the cost of a new computer can be factored in determining a student's financial need. **Please contact the WVU Financial Aid Office (304 293 5242) to request the form "Request for Student Budget Review" and confirm whether the purchase is subject to any additional qualifying guidelines prior to purchasing a computer. The completed "Request for Student Budget Review" form must be submitted directly to the WVU Financial Aid office.** The decision regarding a student's eligibility for a budget adjustment may take some time, so students are strongly encouraged to plan. Only one financial aid budget adjustment (typically up to \$1,500 although a greater adjustment may be possible with justification) toward a new computer and associated software can be issued during a student's undergraduate education.

Hardware Expectation

Note: As of the issue date of this document, computer hardware configurations that meet or exceed all minimum specifications listed below are available through [HP.com](https://www.hp.com) for \$1,400 (16GB RAM) / \$1,600 (32GB RAM) as the [HP OMEN LAPTOP 17t – Product No. 7LG51AV_1](#). A model that meets all minimum specs (only available with 16MB RAM) is available through the [Dell University discount site](#) for \$1,519 ([Dell G7 17 Gaming](#) – Order Code gn7790dmqts). Other laptops that meet minimum specifications (with 16MB RAM) are available at [Best Buy](#) starting at \$1,350. All prices are accurate as of the issue date of this policy but are subject to change.

A minimum hardware specification has been developed to meet the system requirements of the graphics software specified below. Software products currently used in the interior design curriculum for 3D modelling, rendering ([Lumion](#)) and virtual reality ([Vive Pro](#)) are hardware intensive. Because of this, the hardware specifications below typically align more closely with gaming systems. Multiple computer manufacturers can meet the hardware specification, but **PLEASE NOTE THAT THE UNIVERSITY-WIDE COMPUTER RECOMMENDATION IS INADEQUATE FOR INTERIOR DESIGN SOFTWARE. INSTEAD, USE THIS SPECIFICATION.**

Also, beginning with the Class of 2023 computer expectation policy, **the interior design program strongly advises against the purchase of a Mac.** Why? Two common software products used in the industry, Autodesk REVIT and Lumion are not available for Mac operating systems. While they can be run on Mac systems with

Bootcamp (or Parallels) and Windows installed, they run less efficiently. **Lumion also discourages installations on Macs** because graphic cards installed in affordable Mac laptops are generally insufficient for effective rendering in Lumion.

WVU’s wireless network is available in the design studios and across most of the WVU campus both indoors and outdoors. Students must adhere to all WVU security and software policies. Best practices for keeping your account and computer safe can be found at <https://it.wvu.edu/security/defend-your-data/keep-a-clean-machine>. Instructions for connecting to the WVU wireless network can be found at <https://wvu.teamdynamix.com/TDClient/1976/Portal/KB/ArticleDet?ID=15574>. Connections to wireless require a current WVU username and password.

WVU offers fee based wireless printing at certain location. The service is called [MyPrinting](#). Scanning is free at these locations.

Each student is responsible for the security and insurance of her or his design tools used in studio courses, including the personal laptop computer. Use of a computer cable lock is recommended. The interior design program cannot provide technical support, so an extended on-site warranty for hardware is also strongly recommended.

Hardware Specifications

FOR A NEW PURCHASE – RECOMMENDED SPECIFICATIONS	
(Meets current recommended and minimum system requirements for current versions of commonly used design software and most likely to meet system requirements for new releases of software issued during your education)	
Platform	Windows Compatible NOTEBOOK/LAPTOP
Operating System	Windows 10 HOME OR PRO
Processor	>11,500 PassMark CPU Points required (e.g. 9th generation Intel Core i-7-9750H ; (or higher processor) required
Processor Speed	4 GHz or higher (with boost) required
Memory (RAM)	16GB minimum, 32GB strongly recommended
Video Card	“Discrete” Graphics Card – 6 GB min. ; >12,000 PassMark G3D Points required (e.g. NVIDIA GTX 1660TI or 10700)
Video Card Driver	OpenGL version 4.5 or higher
Video Output	HDMI 1.4, DisplayPort 1.2 or newer
USB Port	1x USB 2.0 or newer
Display	FHD (1920 x 1080) Anti-Glare; 17” or larger highly recommended; A 15” display is optional if needed due to budgetary constraints.
Hard Disk Drive	512 GB or higher required; Solid State Drive (SSD) recommended;
NIC/Ethernet Card	Wireless 802.11N or 802.11AC required
External Mouse	3 Button Scroll-Wheel required
Warranty	3 Year On-site / In-home Parts and Repairs Service Recommended
Security	Cable Lock Strongly recommended

IF PREVIOUSLY PURCHASED – MINIMUM SPECIFICATIONS	
(Meets minimum system requirements for the previous release of commonly used design software but will likely not allow you to complete tasks, with new software releases issued during your education, as effectively as the recommended specs)	
Platform	Windows Compatible NOTEBOOK/LAPTOP
Operating System	Windows 10 HOME OR PRO
Processor	8 th generation Intel Core i-5-4590 or higher processor (or AMD Radeon RX 480 or higher processor)
Processor Speed	4 GHz or higher (with boost)
Memory (RAM)	16GB or higher required
Video Card	“Discrete” Graphics Card – 4 GB min. (NVIDIA GeForce® GTX 970 or AMD Radeon™ R9 290 equivalent or faster)
Video Card Driver	OpenGL version 3.0 or higher
Video Output	HDMI 1.4, DisplayPort 1.2 or newer
USB Port	1x USB 2.0 or newer
Display	FHD (1920 x 1080) Anti-Glare; 17” or larger highly recommended; A 15.3” display is optional if needed due to budgetary constraints.
Hard Disk Drive	512 GB or higher; ‘SSD’ recommended;
NIC/Ethernet Card	Wireless 802.11N or 802.11AC required
External Mouse	3 Button Scroll-Wheel required
Warranty	Additional Recommendations:
Security	3 Year On-site / In-home Parts and Repairs Service Recommended
	Cable Lock Strongly recommended

Software Policy

All computers used on the university networks must have up to date software security patches and the free antivirus software available through the university.

Before buying a hardware system with preloaded software, compare the hardware vendor’s software prices with those of WVU’s negotiated academic prices and other student prices provided via the links. The following software expectation comprises a basic software set-up for most design learning activities. Additional software may be expected for individual courses.

Software Specification

All prices are accurate as of the issue date of this policy but are subject to change.

The following software must be installed on your computer <u>prior</u> to the beginning of the fall 2020 semester:		
Anti-virus Software:	Sophos Antivirus Software	Download via http://freeav.wvu.edu (FREE to WVU students if you use your WVU Mix email when you sign up).
Cloud Storage:	Google Drive File Stream	Free, unlimited Google Drive cloud storage is available to WVU students if you use your WVU Mix account. Download Google Drive File Stream via https://support.google.com/drive/answer/7329379
Office Software:	Microsoft Office (Word, Excel, and PowerPoint)	Download via https://wvu.teamdynamix.com/TDClient/KB/ArticleDet?ID=6382 (FREE to WVU students).

Graphics Software:	GIMP	Download via https://www.gimp.org/downloads (FREEware alternative to Photoshop)
Acquire and install the following software on your computer ONLY WHEN REQUIRED FOR A COURSE <i>(please be prepared to acquire and install upon request):</i>		
<i>*Denotes products that are subscription-based or time-limited licenses.</i>		
3D Modeling:	Trimble SketchUp Studio *	Student license. Download via https://shop.creationengine.com/collections/sketchup-studio-for-students/products/sketchup-studio-for-students (\$55/year).
	Autodesk Revit *	Academic version. Download via Autodesk Education Community at https://www.autodesk.com/education/free-software/featured (FREE for students).
Rendering:	Lumion Pro Student	Student license. Download via https://lumion.com/students.html (FREE for students).
	SU Podium V2.6 w/Podium Browser *	Student/Teacher License. Download via https://store.cadaloginc.com/student-teacher-products/ (\$99/year).
Graphics Software:	Adobe Creative Cloud (Photoshop, Illustrator, InDesign, Acrobat Pro) *	Student License; Download via Adobe Creative Cloud for Education (\$20/mo. first year then \$30/mo.)
Other - 2D CADD, VR, etc.:	Autodesk AutoCAD *	Academic version. Downloadable via Autodesk Education Community at https://www.autodesk.com/education/free-software/featured (FREE).
	Viveport	Downloadable via Vive Setup at https://www.vive.com/us/setup/vive/