The School of Architecture at OSU requires all architecture and architecture engineering majors entering 3rd year to purchase and operate a laptop computer, though a desktop is also an acceptable option. It is required to have a high-quality screen, wireless capability, and loaded with specific software. The following specifications are the minimum required hardware and software for the 2018-19 academic year.

Please note that certain computer and software developers/vendors offer packages at competitive prices. Compare prices, terms of use, and after-sale services before making any purchase. While a MAC running Windows via Bootcamp can be an acceptable solution, before you make a decision please be aware that this arrangement can reduce the efficiency of your work flow when using window based software since you will have to reboot to change from MAC-OS to Windows-OS to access the various software.

**Processor (CPU)**
8th Generation Intel® Core™ i7-8750H (6-Core, 9MB Cache, up to 4.1GHz w/ Turbo Boost) or 8th Generation Intel® Core™ i9-8950HK (6-Core, 12MB Cache, Overclocking up to 5.0GHz)

Rhino & Autodesk Revit software products will use multiple cores for many tasks, using up to 16 cores for complex operations.

**Operating System**
Latest operating Windows 64bit, Mac OSX 64bit. Please check individual software's compatibility.

**Memory (RAM)**
Laptops - RAM absolute minimum of 16GB but 32GB of DDR3 or DDR4 system memory is preferred for mobile devices. (Multitasking and large file size accommodations) ECC memory is not required.

Desktops (towers)- system memory can range from an absolute minimum of 16GB to 32GB is recommended - up to but not limited to 64gb of DDR3 or DDR4 memory. ECC memory is not required.

**Display**
15” resolution (1920 x 1080) Full HD or a larger size high quality monitor.

**Hard Drive**
Highest affordable CPU storage and speed rating recommended.

Storage SSD is highly recommended with a minimum of 500GB. Laptops have the capability of dual storage. Example of memory distribution could be 500 gb SSD for the software and 500gb SSD or HDD for file storage. In general, 1 TB SSD for laptop devices is good as long as there is an isolated back-up system included. For desk towers, external hard drives or internal isolated hard drives, hard drive arrays may be used for desktops 1TB storage min.

**Graphic Card**
A compatible dedicated graphic card with at least 4GB of video memory. Graphics processors passmark of 6000 points and 4 GB minimum of GDDR5 memory on laptops and 8GB + of GDDR5 memory is better. More video ram better means better graphic experience. Please review for compatibility.

Examples:
- NVIDIA® GeForce® GTX 1070 OC with 8GB
- GDDR5 Quadro p4000 minimum 8gbVram
- Radeon pro wx7100 minimum 8gbVram

**Network**
Wireless Networking Setup ready (WiFi and Bluetooth 4.2)

**Accessories**
Wireless 3 Button Mouse (Scrolling)
External Drive for back-ups with 1TB min.
Access to at least 500GB cloud based storage
High capacity USB memory stick
Additional Monitor (optional)
Flatbed scanner (optional)
Color inkjet printer (optional)

**Required Software:**

**For AE Students (In addition to the list above):** RISA Software*

*Currently available at no charge for OSU students and Staff.
**May be downloaded from AutoDesk at no charge.