

HARDWARE & SOFTWARE REQUIREMENTS 2019/20
School of Architecture
Georgia Institute of Technology

SOA REQUIREMENTS: CALLED ARCHITECTURE LAPTOPS AT GT TECHNOLOGY STORE 2019/2020 [updated: 5/31/2019]

HARDWARE

Processor

Intel Core i7 3.5 Ghz or higher

Memory

16 GB/ 32GB or higher

Graphic card

4GB discrete graphic card or higher

Primary Storage

256/500 GB drive or higher

Backup

External Hard Drive or cloud service

Networking

Dual-Band (2.4GHz/5GHz) Wireless 802.11n

Recovery option

Highly recommended

I/O devices Physical

keyboard and mouse (trackpad not sufficient)

Extended Warranty

Highly recommended

Optional accessories

Ethernet cable, webcam and microphone, headphones

Recommended

Kensington laptop lock

OPTION I: Dell Mobile Precision 5530



8th gen Intel Core i5-8400H (quad-core 2.5GHz, 4.2GHz Turbo, 8M cache)
Windows 10 Pro 64bit
15.6" UltraSharp FHD (1920x1080) IGZO4 anti-glare Premium Panel Display
NVIDIA Quadro P1000 (4GB GDDR5)
16GB DDR4-2666MHz memory
256GB PCIe M.2 NVMe class 40 Solid state drive
6-cell (97Whr) Lithium Ion Battery
Dell Wireless WiFi 802.11ac + Bluetooth 5.0
4 Year ProSupport with Next Business Day Limited Onsite Service
4 Year CompleteCare Accidental Damage Protection

GT Technology Store [5/31/2019]: **\$2012.79**

OPTION II: Lenovo P51



7th gen Intel Core i7-7820HQ (8M cache, up to 3.90GHz)
Windows 10 Pro 64-bit
15.6" FHD (1920x1080) IPS display
NVIDIA Quadro M1200M 4GB
16GB RAM (DDR4-2400MHz SODIMM)
512GB PCIe solid-state drive
720p Webcam
Backlit keyboard and fingerprint reader
6-Cell Li-Ion Battery
Intel dual-band WiFi 802.11ac with Bluetooth 4.1
4 Year on site warranty + Accidental Damage Protection

GT Technology Store [5/31/2019]: **\$2160.40**

REQUIRED SOFTWARE

SOFTWARE below is required to be installed on student laptops

Operating System

Windows 10 _____ free
<http://onthehub.com/download/free-software/windows-10-education-for-students/>

Adobe

Creative Cloud _____ US\$19.99/mo
<http://www.adobe.com/creativecloud/buy/students.html>

Autodesk

3ds Max _____ free
AutoCAD _____ free
A 360 _____ free
Inventor Professional _____ free
Maya _____ free
Revit _____ free
Robot Structural Analysis Professional _____ free
Stingray _____ free
FormIt Pro _____ free
and more _____ free
<http://www.autodesk.com/education/free-software/all>

McNeal

Rhinoceros 6 _____ US\$195
https://www.rhino3d.com/sales/north-america/United_States

Grasshopper

Windows Version _____ free
<http://www.grasshopper3d.com/page/download-1>

175+ Plugins for Grasshopper _____ free
http://www.food4rhino.com/browse?sort_by=ds_changed&f0=im_field_unified_type%3A773&f1=im_field_platform_app%3A720

OIT

EndNoteX8 _____ free
Microsoft Office 365 Pro Plus _____ free

<https://software.oit.gatech.edu/request.php?platform=win8&audience=students&filter=>

ADDITIONAL SOFTWARE

Chaosgroup

VRay _____ US\$103.00/year
http://www.chaosgroup.com/en/2/vray_academic.html