

Summer Academy track hardware and software requirements

In order to participate online students in all tracks are required to have a computer equipped with a webcam and microphone.

Hand-Drawn Character Animation

Students will be provided with a two-week license for TVPaint professional animation software.

Students will need some method to draw in your home using a tablet/pen computer setup. These are available for as low as \$60 (see details below).

Recommended pen-based options:

The iPad Pro won't allow you access to TVPaint, so it isn't recommended.

- **Tablets:** Among the least expensive quality tablet options is the Wacom Intuos CTL4100, available for \$60 from B&H, and \$70-80 from Best Buy, Walmart, or Amazon. The Huion 1060Plus is another good option, available for \$83 from Amazon.

Link to B&H (availability may be limited) https://www.bhphotovideo.com/c/product/1491563-REG/wacom_ctl472k1a_one_creative_pen_tablet.html

- **Interactive pen displays:** Wacom's least expensive Cintiq-like display is the Wacom One, available for \$400 on the Wacom site. Other inexpensive options include the Huion, YiyNova, and XP Pen tablet.

Link to Wacom One <https://estore.wacom.com/en-US/screens/screens-displays/wacom-one-dtc133w0a.html>

- **Pen-based computers:** If you want a computer/pen combination, we strongly recommend the Surface Pro (I use a Surface Pro for all of my animation and comic drawing, and I actually prefer it to a Cintiq). The 5th generation Surface Pro starts at \$750, and the 6th generation starts at \$900.

Computer requirements

Windows: Vista, 7, 8 & 10, or newer

Mac: Lion (10.7), Mountain Lion (10.8), Maverick (10.9), Yosemite (10.10), El Capitan (10.11), Sierra (10.12), High Sierra (10.13), Mojave (10.14) & Catalina (10.15), or newer.

Processor: any dual-core processor

RAM: At least 2GB

Free hard drive space: 10GB

The performance of TVPaint Animation is only dependent on speed and amount of available RAM, hard drive speeds, and number and speed of processor cores.

There is no need to invest in an expensive video card to make full use of TVPaint Animation.

Screenwriting

Students will be provided with a link to free screenwriting software.

3D Modeling & Animation (Game Art)

Software Requirements

Autodesk Maya (Free) <https://www.autodesk.com/education/free-software/maya>

Autodesk Mudbox (Free) <https://www.autodesk.com/education/free-software/mudbox>

Hardware Requirements

Microsoft® Windows® 7 (SP1), Windows® 10 Professional, Windows 10® version 1607 or higher operating system

Apple® Mac OS® X 10.13.x, 10.14.x, 10.15.x¹ operating system

CPU: 64-bit Intel or AMD multi-core processor

8 GB of RAM (16 recommended)

4 GB of RAM on Video/Display Card (Gaming card or Workstation card is ideal)

Monitor with 1920 x 1080 resolution or greater

15GB hard disk space for software installation and project space

3 Button Mouse

Game Development

All software used by the Game Development track will be free and downloadable by students.

Unity Hub and the 2020.1 version of Unity Editor <https://unity3d.com/get-unity/download>

GitHub <https://github.com/> and GitKraken <https://www.gitkraken.com/>

Some kind of text editor such as Atom <https://atom.io/>

Students may also want access to Autodesk Maya (Free) <https://www.autodesk.com/education/free-software/maya>

Hardware requirements:

Minimum requirements	Windows	macOS
Operating system version	Windows 7 (SP1+) and Windows 10, 64-bit versions only.	High Sierra 10.13+
CPU	X64 architecture with SSE2 instruction set support	X64 architecture with SSE2 instruction set support
Graphics API	DX10, DX11, and DX12-capable GPUs	Metal-capable Intel and AMD GPUs
Additional requirements	Hardware vendor officially supported drivers	Apple officially supported drivers

Film & TV Production

Software Requirements

Adobe Premiere Pro (\$31.45 for one month subscription)

<https://www.adobe.com/creativecloud/plans.html>

Camera

Phone with video recording capability

(camcorder or DSLR w/video capability recommended)

Computer Hardware Requirements

Microsoft Windows 10 (64-bit) version 1803 or later

Apple macOS v10.13 or later

CPU: Intel® 6th Gen or newer

8 GB of RAM (16 recommended)

2 GB of GPU VRAM on Video/Display Card (4 GB recommended)

[Recommended graphics cards for Adobe Premiere Pro](#)

Monitor with 1280 x 800 resolution or greater

8 GB hard disk space for software installation plus additional 30 GB space for media

(on computer or on an external hard drive)

Sound Card for Windows: ASIO compatible or Microsoft Windows Driver Model

Webcam and microphone