Kinetic Imaging Equipment

Required:
- Computer
- Digital SLR camera with video capability
- External hard drive for backup (at least 2 terabyte suggested)
  - Lacie, OWC Mercury, Western Digital to name a few
- Adobe Creative subscription [student rate](#)
- Over-the-ear studio headphones
  - Sennheiser, Sony, Audio technica
- 16GB SD card (you will use this many, many times)

Recommended:
- Tripod
- 4GB USB memory stick (thumb drive)
- 4GB SD micro card
- Audio recording equipment (Zoom H4n)
- HDMI cord 6'-16'
- HDMI to thunderbolt adapter
- VGA to thunderbolt adapter
- projector or monitor for displaying work

What computer to buy?
Can be a MAC or PC, desktop or laptop with most up to date operating system. Animation, Video and Sound classrooms have MAC computers; 3D modeling and animation classroom uses PC computers (Dell), running Autodesk Maya.

RamTech provides computers specific to Kinetic imaging standards.
https://ramtech.lightspeedwebstore.com/so-arts-kinetic-imaging

Computer specifications – look at online system requirements for Adobe After Effects and Autodesk Maya
- •Intel Core i5 Processor (i7 processor suggested) AMD Phenom II processor (PC)
- 8 - 16 GB RAM or more (16GB recommended)
- Large capacity solid state hard drive (SSD) – 250 GB / more is better
- Hard drive speed SATA 3, 7200 mps
- Graphics card is important- discrete graphics (not integrated)
  - look at software certified cards, online
- USB 3.0 ports
- OpenGL 2.0–capable system
- Adobe and Maya certified OpenGL graphics card

Software: (get student discount via Journeyed.com)
- Adobe Premiere  ( Final Cut X could be substituted but not taught in class)
- Adobe Creative Cloud  (After Effects, Photoshop, Premiere)

External hard drive: An external hard drive is a must! – 2 TB or more is recommended, and one that is portable. A second hard drive is recommended to backup your files.

SD Cards:
- 16-32gb Class 10
- micro SD card 16-32gb class 10

Video Camera –
A great source for purchasing camera and related equipment - B&H Photo and Video (bhphotovideo.com – go to [Students/Educators](#) tab at top, for student pricing.) look for something that shoots 1920 x 1080p (Full HD) 1280 x 720p (HD), 640 x 480p (SD). consider 4k options with higher frame rate capturing.
Camera technology changes rapidly. It is recommended that you wait until entry into the department, use some of the cameras that are available for rental and talk with your instructors. The cameras listed below are DSLR cameras, which work on the animation stand as well as for video.

**DSLR camera recommendations as of April 2017:**
- Nikon D3400 ($497 with 18-55mm lens)
- Nikon D3300 ($447 with 18-55mm kit lens)
- Canon Rebel SL1 ($499 with 18-55mm lens)
- Canon Rebel T6 ($449 with 18-55mm lens)
- Canon Rebel T5 ($389 with 18-55mm lens)
- Olympus OM-D E-M10 ($499 with 14-42mm lens)
- Sony Alpha a5000 ($448 with 16-50mm lens)

**Audio Recording Devices**
- Zoom h4n pro - has xlr input capable
- Sony PCM-M10 Field Recorder--micro sd
- Tascam DR-40 4-Track Handheld Digital Audio Recorder - xlr capable

**Additional information about Student Computer Initiative**
http://www.vcu.edu/sci/