

SUPPLY LIST - SPAS

CAD Tech Student Managers - 2024-12-08 - Hardware and Software Recommendations & Information

School of Photographic Arts and Sciences (SPAS) 2024 Freshman Equipment Guide

As a student in RIT's Photo School, you will find that we are available to support you with photographic gear and the opportunity to benefit from special EDU pricing on select products that you will need for your education and your career.

When you are on campus, you will have access to the widest assortment of photographic gear on the planet through our SPAS Equipment Cage. While you can borrow this gear, the intent is to make it available to supplement and extend your gear's capabilities.

To achieve the greatest success in school and beyond, it is essential that you come into the program with your camera and other select equipment that you will be using on a very regular basis. Doing so will allow you to become intimately familiar with and fully understand the most important tools of your trade.

This page provides guidelines and suggestions on what to get and where to get it. We also include information regarding computers, software, and equipment protection insurance.

Note: *Student loans may also be used to purchase equipment and supplies. Please check with your financial aid advisor for more information.*

Required Equipment list for ALL SPAS students:

- **Digital Cameras:**

- A full-frame digital camera (DSLR or Mirrorless) that accepts interchangeable lenses
 - Full Frame (FF) is generally preferred, as this maintains normal focal length views
 - The Cage has a wide range of lenses to support most camera brands
- Manual exposure as well as auto exposure capability
- Ability to shoot in RAW format and HD video with customizable White Balance

- **Lens:**

- **Lenses for BFA students:**

- Fixed focal length (prime) f/2.0 or faster is recommended. 35mm, 50mm, and 85mm, or you could choose a zoom lens in the range of 24-70 f/2.8
 - Slower speed zoom (“kit” lenses) are not recommended due to lower quality

- **Lenses for BS students:**

- Macro lens (50/60mm or 100/105mm) capable of reproduction of 1:1 (life-size with or without extension tubes)
 - Lens does NOT need to be auto-focus

- **ColorChecker Passport (formerly branded X-Rite, now Calibrite):**

- ColorChecker Passport Photo 2 #CCPP2 (required)
 - ColorChecker Passport Video #CCPPV (optional alternative)
 - Available at: <https://calibrite.com/us/product-category/capture-solutions/>
 - EDU pricing: <https://photovideoedu.com>

- **Remote Shutter Release/Tethering cords:**

- There are multiple options, both wireless and wired. Be sure to check your camera model for compatibility. For more information on camera tethering: <https://tetherools.com/blog/usb-compatibility/>

- **Light Meter:**

- Meter should be ambient and flash capable in both incident and reflective modes, as well as able to display in EV (exposure values)

- **Tripod:**

- Aluminum or carbon fiber legs, ball head with “Arca-Swiss” compatible quick-release plate (QR). (An extra QR plate is recommended)

- **Camera Bag:**

- Soft-sided bag with good equipment protection, comfort for carrying, and easy access

- **Media:**

- 32GB size or larger card for your camera: SD, SDHC, SDXC, CFexpress, and XQD are the most common. With high-speed transfer such as 100MB/s (see

camera manual for recommendations)

- A memory card reader to match the best computer connection, which most currently is USB C (multi-format capable, USB 3.2 speed preferred)
- USB flash drive 128GB or larger, for example [amazon.com/SanDisk-128GB-Ultra-Drive-Type-C/dp/B01EZ0X55C?th=1](https://www.amazon.com/SanDisk-128GB-Ultra-Drive-Type-C/dp/B01EZ0X55C?th=1)
- **Note:** Reliable brands (such as Kingston, Lexar, and SanDisk) are recommended. Less expensive cards can corrupt easily, resulting in data loss

- **External Storage Drives:**

- Two drives, at least 1 or 2 TB in size (USB 3.2 and 7200rpm HD or SSD)
 - You must format these drives to exFAT so they will work with either MAC or Windows. (depending on your personal computer platform choice, but SPAS/CAD labs are MAC-based)
 - Stand-alone (bus-powered) hard drives are best; one drive will be a working drive, and the other should be an archive/backup drive
- Adapters are often required to connect your devices to your computer. Spares are always a good idea!
- **Note:** Trusted brand names such as G-Tech (SanDisk), LaCie, Seagate, and WD are more reliable

Insurance:

- While purchasing equipment insurance is not a requirement, it is **HIGHLY** recommended as coverage for your personal equipment and the equipment you will be using from the photo cage. RIT has partnered with a company called Gallagher, otherwise known as “College Student Insurance”, for this policy: <https://www.collegestudentinsurance.com>

Computers:

- The computers in our labs are Mac-based and will support the standard requirements of your assignments and projects. However, it is strongly recommended that you have your own computer. You will be working with memory-intensive applications, so your system hardware needs to provide a higher level of performance than most home computers. Some recommended guidelines include:
 - System Hardware Requirements:
 - 2 GHz or faster, i5 or greater processor / 16GB RAM minimum

- Mac OSX+ or Windows 10 (64-bit) operating systems
- Graphics Card and Display (as much as you can afford)
- Drive: Solid State preferred, 1 TB minimum
- Special EDU pricing is available directly from a few companies. Among the most popular:
 - Apple Education Store: apple.com/us-hed/shop
 - Dell University: dell.com/en-us/member/shop/delluniversity/cp/delluniversity
 - RIT Digital Den: <https://www.rit.edu/digitalden/>

Software:

- On campus, you will have access to many software programs.
- **Adobe Creative Suite: Creative Cloud for Students**
We are happy to announce that beginning with Fall Semester 2024, RIT will be an Adobe Creative Campus and CAD students will have access to the full Adobe Creative Cloud for academic use. Details for access will be provided upon your arrival.
- As a student, another essential suite of products you will have free access to is **Microsoft Office 365 Education**, which includes Word, Excel, PowerPoint, OneNote, Microsoft Teams, and additional classroom tools. You use your RIT school email address to get started: microsoft.com/en-us/education/products/office
- RIT offers Google Apps services as part of your RIT email account: <https://www.rit.edu/google/>

Where to Buy and Other Resources:

- Camera comparisons and reviews such as: dpreview.com
- Many photo manufacturers may offer “Educational Discounts” (EDU), some directly, others through a vendor such as B&H Photo, Adorama, and Roberts Camera. Check the company’s website for membership requirements and benefits.
- RIT Digital Den <https://www.rit.edu/digitalden/>
- Links to multiple manufacturers and vendor websites:
 - Society of Photographic Education – Industry Resources
<https://www.spenational.org/resources/educational-offers>
- Other suppliers of EDU-priced computer and software products are:

- Academic Superstore: academicsuperstore.com
- Manufacturer's websites:
 - Canon: usa.canon.com
 - Fujifilm: fujifilmusa.com
 - Nikon: nikonusa.com
 - Olympus: olympusamerica.com
 - Sony: <https://electronics.sony.com/imaging/interchangeable-lens-cameras>
 - Mac Group: photovideoedu.com
 - CAD: <https://inside.cad.rit.edu/>

Further Questions:

If you have any questions, please do not hesitate to contact the school's photo office at 585-475-2716 or spastour@rit.edu so you can be directed to someone who can help you.

Special Offers - Updated monthly

We're pleased to introduce this new online portal providing access to support, special offers and special pricing that the imaging industry is making available to you, as RIT Students and Faculty. Click below to see the latest offers:

<https://helpdesk.cad.rit.edu/kb/articles/special-offers-and-purchase-programs>

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To get back to the Main CAD recommendation page, click the link below:

[**Hardware and Software Recommendations**](#)

Attachments

- [RIT-Student-Equipment-Insurance.pdf \(350.84 KB\)](#)