

Hardware requirements for 20 video iPods

| Hardware/software item | Explanation of the need for this item | Cost |
|---|---|---|
| *20 iPod Classic 80 GB 2.5" screen *Other iPods will that will display video include the Nano (2" screen for \$149) and the iPod Touch (3.5" screen for \$299) | Video iPods are needed for the vodcasts. Each student must have his/her own iPod for the duration of the lab. Lab enrollment is limited to 20 students | \$249 x 20 = \$4980 |
| 20 protective cases (dual skin silicone) | Hard cases resistant to chemical spills are required for each iPod | \$30.95 x 20 = \$619 |
| Charging hub, Synchronotech hub with 13 ports | Single charging hub for 13 iPods. | \$45 |
| MacBook 13": White 2.4GHz Intel Core 2 Duo laptop with 125GB internal hard drive, and Apple Care Protection Plan | The chemistry department does not currently have a Mac computer. Since the videos will be initially edited on Mac computers with Apple software, a Mac laptop in the chemistry department will provide smooth interfacing and the ability to easily edit and update vodcast files | \$1099 (optional, but convenient) |

Total: \$6743

Typical requirements for video production

| Hardware/software item | Explanation of the need for this item | Cost |
|--|--|-------------------|
| Digital camcorder | A digital camcorder creates fewer artifacts. A good camera with a microphone input averages around \$1,200 | \$300 - \$2,500 |
| Fast computer with 2GB RAM, and a 500MB external hard drive. | Video editing is demanding. A fast machine with at least 1GB of RAM is required. One hour of digital video uses about 20GB of hard-disk space, and accessing video files can bog down the main hard drive. An external FireWire hard drive will lessen the demand on the CPU. A fast hard drive (7200RPM) will allow you to capture directly to it | \$1,500 - \$3,000 |
| Editing software (e.g. Final Cut Express, Adobe Premiere) | Professional editing software is highly recommended for creating even basic lab videos, allowing the editor to crop, zoom, and freeze the image, and offering flexible titles and callouts. | \$100 |
| Quartz halogen lighting and a | Lights and a lavalier microphone are the | \$100 - \$1,000 |

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| lavaliere microphone | most cost effective ways to add quality and intelligibility to the images and sound. | |
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Total: \$2,000 - \$6,600