Engineering Innovation Center
Video Production I

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The Engineering Innovation Center Digital Video Center is designed to give students access to video and audio technologies. The room and equipment are quite expensive thereby necessitating the space being reservation only. All reservation requests will require EIC Facility Manager approval. However, there is a lot to be learned and we always welcome users whenever possible.
The Digital Video Center is located in the administration area of the EIC next to the Equipment Check out center!
The Digital Video Center uses three different backdrops:

• Green for Chromakey
• Black and Blue for Dead drop backgrounds.

We also have Ceiling mounted LED lights and LED light stands.
Our main camera is a JVC GC-PC100 HD Camera.

We have a Panoramic 1.2 x lens attached to maximize focal length for the room.
Our secondary camera’s are:
• Sony Handycam DCR-SR68
• Sony Handycam DCR-HC36

Both cameras have SD card input.
The EIC maintains 3 camera sets for checkout up to 3 days. These cameras may leave the building.
Equipment – Webcams

The Logitech Webcam is a 1080 HD performance webcam. Very good performance.

The Microsoft LifeCam is an excellent USB based webcam. It features 720 HD resolution and a high quality stereo microphone.
Overhead Bescor LED matrix Lighting. This unit is ceiling mounted to provide better overhead light coverage. This unit has two independent lighting controls and movable bezels to focus the light.

2 stand mounted Daylight Bescor LED lighting units. These can be positioned around the room to maximize lighting and minimize shadows.
We have a Yamaha mixer for multiple audio. The Yamaha unit can take many inputs of varying device connectors including RCA, ¼” and XLR. This unit connects two 2 Peavy Speakers.
The Digital Video Center also has several Preamp microphone units that can mix 2 microphones or instruments.

The Presonus AUDIOBOX USB kit allows you to hook up to your laptop for realtime mixing.
The Digital Video Center has a variety of Microphones and stands to give you a better Audio experience.
Condenser Microphones

Characteristics
• Good sensitivity at all frequencies.
• Power supply is required.
• Vulnerable to structural vibration and humidity.

Dynamic Microphones

Characteristics
• Construction is simple and comparatively sturdy.
• No power supply is required.
• Relatively inexpensive.

Condenser microphones may have greater appeal because they have "good sensitivity at all frequencies". However, they are not always the most practical choice. Often during recording, a "pop shield" filter is required to protect against noise caused by the vocalist's breath hitting the condenser microphone. This is because condenser microphones are able to react to more subtle sounds. On the other hand, condenser microphones are not suited for high-volume recording, so dynamic microphones are mainly used in situations where loud audio is to be picked up.
USB microphones are used directly with PC’s, tablets or laptops. They connect via your USB port and generally are auto-detected by the operating system. The EIC has 2 units available for checkout.
Windows Movie Maker is a download for all version of windows. It is part of the Windows Essentials download. It is a simple drag and drop based program.
A better alternative to video editing is Adobe Premiere. It allows multiple audio video tracks, many video codecs, and allows for transitions and text. It does host many features and has a steep learning curve.
Setting up Adobe Premiere

For videos in the EIC we recommend using HD settings when setting up your project. Use capture format HDV.

Once you start the project you will see a timeline. This is your workspace where you can move video and audio clips around to the correct timecode.
We would love to have you visit the EIC and use the capabilities of the Digital Video Center. This facility is to support you. Understand that because of the delicate nature and expense of the equipment you will need to request time on the calendar to use the center. We hope you found this PopUp useful.

EIC webpage – http://engineering.tamu.edu/eic
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