

# Classroom Technology

Most classrooms at Martin Luther College are equipped with various types of technology which allow faculty, staff, students, and guests to enhance the learning experience while on campus. Below you will find various links to instructions on how to use the technology available in the rooms.

- [Using Your Personal Laptop](#)
- [Universal Docking Station Display Driver](#)
- [Wireless Projectors](#)

## Troubleshooting

You can attempt these steps to troubleshoot some issues with the universal docking stations in most classrooms.

- Disconnect and reconnect the USB cable to your device
- Disconnect the USB cable from device and power adapter from docking station, wait for a minute, then reconnect the power, wait for 30 seconds, and reconnect USB cable to device
- Make certain that the correct sound output device is selected for universal docking station
- Reinstall [universal docking station display driver](#)

If none of those steps fix the issue, please [contact MLC Network Services](#).

- [Using Your Personal Laptop](#)
- [Universal Docking Station Display Driver](#)
- [Wireless Projectors](#)

# Using Your Personal Laptop

Most classrooms are setup specifically to allow faculty members at Martin Luther College to quickly and easily get ready for their class. This currently includes a docking station specific to the model of laptop currently in-use. However, classrooms can be setup to allow personal laptops to be used for presentations.

If you need that capability, [please contact Network Services with your support request](#).

The following instructions commonly work across campus when a universal docking station is available.

## Video Through Projector

1. Install the appropriate [driver for the universal docking station display driver](#) for your operating system
2. Connect the USB cable from the universal docking station to your computer (and let your operating system install any additional drivers)
3. Turn on the projector using the white Epson remote
4. Turn on the Epson document camera using the switch in the upper-right corner
5. Select  on the Epson document camera to switch video to display from your laptop
6. Use the projector remote's Source Search to select the proper source on the projector if it is not working

## Audio Through Speakers

Audio is sent out through the universal docking station. When you connect the USB cable, you will also have access to the sound system in the room. You might need to change the output on your device.

1. Control the volume using the  knob on the wooden sound box

## Internet Access

- You will want to use the MLC Guest WLAN for internet access while on campus
- If you do not know the current access code for registering as a guest on campus, please contact the front desk, Network Services, or talk to a faculty or staff member

If you run into issues, please stop in Network Services to ask for assistance.

# Universal Docking Station Display Driver

MLC utilizes the [Plugable UD-3900 Dual Display Universal Docking Station](#) in most of the classrooms around campus.

## Install the Driver

If you are coming on campus to teach or present, you will need to install the appropriate driver package for your operating system:

- [Visit the Plugable site for the most up-to-date driver for your platform](#)

Install the appropriate driver, restart the machine, then connect the docking station via USB and set your display settings as needed.

## Windows 10 Users

If you are using a device with a modern release of Windows 10, the drivers will often install automatically after a short while as long as you are connected to the wireless network on campus. If you run into issues, you can use the above link to install the drivers manually, but it is recommended that you let Windows 10 attempt the install automatically first.

## For macOS High Sierra Users

Running macOS 10.13 High Sierra and the docking stations can cause some odd problems. First, you will probably only see your display on the projector or TV. If you try to mirror the display, it will crash the machine and you will need to unplug the docking station to get it working again.

**You need to set the display to act independently (extended displays).**

[You can read more about the issue here.](#) If you have installed macOS 10.13.4 - 10.13.6, the display will not work. You will either need to ask for assistance for help on bypassing the docking station or

you will need to update to macOS 10.14 or newer.

# Reinstall the Driver

In order to successfully remove the driver, you will need to follow these instructions (specific to Microsoft Windows right now):

- Go to *Programs and Features*
- Select and uninstall/remove any programs that mention *DisplayLink*
- Download and run the [DisplayLink Installation Cleaner](#) (you will need to select the window that appears and hit Enter once or twice, be patient and follow the on-screen instructions)
- Restart your machine
- [Download the latest driver](#) and install it

You should now be able to connect the USB cable again and be able to utilize the docking station as needed.

# Wireless Projectors

Martin Luther College has a small number of wireless projectors deployed around campus.

## Miracast

[Miracast](#) is a standard for wireless connections from devices to displays. Windows 10 has built-in support for Miracast and the Surface Pro 4 supports the standard out-of-the-box. Please check the documentation for your device in order to find out how to connect to a Miracast display.

These current classrooms have built-in support for Miracast in the projectors:

- Music Center 217
- Music Center 123
- WCC 203
- WCC 262
- WCC 260
- WCC 221

## Epson EasyMP Network Projection

In the following classrooms you will need to install and setup the Epson EasyMP Network Projection application in order to wireless display content:

- Board Room (Library)
- WCC 219
- WCC 216
- Basement Meeting Room (Chapel of the Christ)

If you have a need, please [contact Network Services](#) ahead of time in order to have the application installed.