Guide to Engineering Collaboratories
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Engineering Collaboratories

*Engineering Collaboratories* are specially configured rooms or areas of *Eos labs* where students, faculty, and staff can meet to work on projects together. Designed with technology to support collaborative work and interaction, these learning spaces typically have one or two Eos workstations connected to a 42-inch plasma monitor, with network connections for individual laptops.

**Location and Use of Collaboratories**

College of Engineering collaboratories are located in:

- **226 Daniels Collaboratories** on page 4 (5 learning spaces in the 226 Daniels Eos lab)
- **Using the 226 Daniels Collaboratories** on page 6
- **228 Daniels Conference Room Collaboratory** on page 8
- **320 Mann Collaboratories** on page 9
- **Using 228 Daniels and 320 Mann Collaboratories** on page 11

**Get Help**

- **Help Desks**: 204 Daniels (515-2458, 8-5 M-F); 1002 Engineering Building I (515-2458, 8-5 M-F)
- **Email**: eoshelp@ncsu.edu  Web: http://www.eos.ncsu.edu/collabs/
226 Daniels Collaboratories

226 Daniels Hall is an *Eos lab* that also includes **five** engineering collaborative learning spaces.

**226 Daniels Equipment**

Each collaborative learning space is installed with the following equipment:

- 42-inch plasma TV monitor (one 46" 1080p monitor on Dan226-102-W-C)
- Eos workstation - Linux or Windows
- Extron SW VGA interface switcher
- Video cables for two laptops to connect to the plasma monitor
- Wireless keyboard
- Wireless mouse
- Table and chairs

**Layout**

![Figure 1: 226 Daniels Engineering Collaboratory](image)

*Figure 1: 226 Daniels Engineering Collaboratory*
Figure 2: 226 Daniels Engineering Collaboratory

Figure 3: 226 Daniels Engineering Collaboratory
Using the 226 Daniels Collaboratories

226 Daniels Collaboratories on page 4 include five engineering collaborative learning spaces located in the 226 Daniels Eos lab.

VGA Switch

Each collaborative space has an Extron SW VGA interface switch located on the shelf under the plasma monitor. The switch is set by default to button 1/MODE to display the screen of the Eos workstation on the plasma monitor.

Connecting your laptop and switching displays:

Two cables are available at the table to connect two laptops to the plasma monitor. They are labeled Laptop 2 and Laptop 3 to correspond to the VGA switcher buttons 2/NORMAL and 3/AUTO.

1. Select one of the two video cables (labeled Laptop 2 or Laptop 3). Plug its 15-pin connector into your laptop.

2. On the SW VGA switch, press the button that corresponds to the computer whose display you want to send to the plasma monitor.

- Button 1/MODE for the Eos workstation
• Button 2/NORMAL for the laptop connected to the cable labeled Laptop 2.
• Button 3/AUTO for the laptop connected to the cable labeled Laptop 3.

Note: You may need to press a key combination on your laptop to send the laptop screen to the monitor. It is usually the Fn plus the F8 (CRT/LCD) keys.

• Help Desks: 204 Daniels (515-2458, 8-5 M-F); 203 and 226 Daniels (515-3923, 24/7)
• Email: eoshelp@ncsu.edu  Web: http://www.eos.ncsu.edu/collabs/
228 Daniels Conference Room Collaboratory

228 Daniels must be reserved at http://www.eos.ncsu.edu/collabs/reserve/. 228 Daniels is a conference room that has been set up as a collaborative learning space.

Equipment

This collaborative learning space is installed with the following equipment:

- Wall-mounted, touch-control menu panel
- 42-inch plasma TV monitor
- Two Eos workstations with monitors - Linux and Windows
- Two wireless mice (one for each workstation)
- Two wireless keyboards (one for each workstation)
- Four network cables for laptops, color-coded for selection via the menu panel. Each cable has a NOMAD network connection, a video connection to the plasma monitor, and an audio connection.
- Whiteboard
- Table and chairs

Layout

Figure 4: 228 Daniels Engineering Collaboratory

Reserve a Collaboratory and Get Help

- Reserve 228 Daniels conference room collaboratory: http://www.eos.ncsu.edu/collabs/reserve/(engineering students, faculty and staff only)
- Help Desks: 204 Daniels (515-2458, 8-5 M-F); 203 and 226 Daniels (515-3923, 24/7)
- Email: eoshelp@ncsu.edu  Web: http://www.eos.ncsu.edu/collabs/
320 Mann Collaboratories

320 Mann Hall is an *Eos lab* that also includes **two** engineering collaborative learning spaces.

**Equipment**

This collaborative learning space is installed with the following equipment:

- Wall-mounted, touch-control menu panel
- 42-inch plasma TV monitor
- Two Eos workstations with monitors - Linux and Windows
- Two wireless mice (one for each workstation)
- Two wireless keyboards (one for each workstation)
- Four network cables for laptops, color-coded for selection via the menu panel. Each cable has a NOMAD network connection, a video connection to the plasma monitor, and an audio connection.
- Whiteboard
- Table and chairs

**Layout**

*Figure 5: 320 Mann Collaboratories*
Using 228 Daniels and 320 Mann Collaboratories

These instructions can be used in any of the following engineering collaboratories:

- 228 Daniels Conference Room Collaboratory on page 8
- 320 Mann Collaboratories on page 9

The touch-control menu panel

The touch-control menu panel on the wall has both buttons and a touch-sensitive screen to control the equipment in the room. **Touch the screen of the small control panel on the wall to activate the touch-control menu.**

![Touch-screen control panel](image)

Using the Eos workstation

1. **Touch the menu panel to activate it.**
2. Touch the On button on the menu panel.
3. Touch the PC Control button. Choose the Left or Right workstation (PC).

![Select a PC to send to the Plasma](image)

4. Log in to the corresponding Eos workstation (left or right of the table). Its display will appear on the plasma monitor.
5. When you are finished, touch the Off button on the menu panel. Confirm Yes to turning off the equipment.
Connecting and using your laptop

1. **Touch the menu panel to activate it.**
2. Touch the **Laptop Control** button. Choose one of the colored laptops (blue, red, yellow or black).

3. At the table, take the cable whose color corresponds to the laptop color you selected on the menu panel and connect its video, audio, and network cables to your laptop. Its display will appear on the plasma monitor.

   ✍️ **Note:** You may need to press a key combination on your laptop to send the laptop screen to the monitor, usually **Fn** plus **F8** or **F7**.

4. When you are finished, disconnect your laptop and return the cables to their original location.
5. Touch the **Off** button on the menu panel. Confirm **Yes** to turning off the equipment.

Switching displays on the plasma monitor

The monitor can display the screen of either of the two Eos workstations or any of the four laptops, just one at a time.

1. To switch the display to the Eos workstation, touch the **PC Control** button on the menu panel and choose the **Left** or **Right** workstation.
2. To switch the display to a laptop, touch the **Laptop Control** button on the menu panel and choose the laptop that matches the color of the laptop's cable.
Reserve a Collaboratory and Get Help

- **Reserve 228 Daniels conference room collaboratory:** [http://www.eos.ncsu.edu/collabs/reserve/](http://www.eos.ncsu.edu/collabs/reserve/) (engineering students, faculty and staff only)
- **Help Desks:** 204 Daniels (515-2458, 8-5 M-F); 203 and 226 Daniels (515-3923, 24/7)
- **Email:** eoshelp@ncsu.edu  **Web:** [http://www.eos.ncsu.edu/collabs/](http://www.eos.ncsu.edu/collabs/)