



Purpose

The purpose of the Learning Space Technology Standard is to provide a common technology platform and consistent classroom experience for students and faculty.

Guided by pedagogically sound best practice in teaching and learning, the application of the standards to a room considers room function and attributes.

Implementation of this standard will ensure our learning spaces are equipped with cost-effective, reliable, and sustainable technology that is future-focused and easily supported. The standard will facilitate consistent training and documentation for users of RDC learning spaces, and will reduce the potential for loss of revenue and reputation due to technology challenges.

Learning Spaces

The Learning Spaces Master Plan (revised 2013) defines the following learning spaces:

- **Seminar Rooms:** Flat floor with tables and chairs (8-20 seats)
- **Flexible Learning Studios:** Flat floor and designed for flexibility in configuration to support a variety of learning activities (20-60 seats)
- **Traditional Non-Tiered Classrooms:** Flat floor with student desks and chairs (20-60 seats)
- **Tiered Classrooms:** Tiered and fixed tables and chairs (40-120 seats)
- **SCALE-UP Classroom:** Flat floor and designed for active learning with tables and chairs configured in a round pod configuration (99 seats)
- **Lecture Theatres:** Tiered and fixed theatre style seating (100-200 seats)
- **Trades Classrooms:** Flat floor with tables and chairs, additional space for ILMs and prop storage (size dependent on storage requirement)
- **Computer Labs:** Flat floor with individual computer workstations
- **Labs:** Individual design is based on needs and room attributes
- **Studios:** Individual design is based on needs and room attributes

Learning Space Technology Standards Recommendations

These recommendations are based on, and meet most of the criteria of, the *Classroom Technology Standards* document presented to EIT in May 2016 that were developed by the Teaching and Learning Technology Sub-Committee of EIT with input from faculty members of the Centre for Teaching and Learning, IT Services, and the Library Information Common.

Non-standard learning space configurations will require a business case and will be subject to approval.

Business cases will be required for SCALE-UP Classrooms, Computer Labs, Labs, and Studios.



All Seminar Rooms, Flexible Learning Studios, Traditional Classrooms, Tiered Classrooms, Lecture Theatres, and Trades Classrooms will be equipped with the following standards at the Instructor Station and at the Display:

Instructor Station

There are three Instructor Station types, referred to as P₁, P₂, and P₃.

- Appendix A describes Podium Design.
- Appendix B describes the Design and Function of the Extron Switching Panel.

P₁: P₁ standards support a cloned desktop.

P₁ standards are applied to Traditional Classrooms, Flexible Learning Studios, Trades Classrooms, Tiered Classrooms, and Lecture Theatres.

P₂: P₂ standards are a scaled back Instructor Station and only include a PC with wired network, audio, and a telephone. No physical podium will exist in these rooms. P₂ standards will be applied to Seminar Rooms.

P₃: P₃ standards will support an extended desktop. P₃ standards will only be applied upon approval of a business case.

Accessible Podium

Accessible podiums will be available in selected classrooms across College buildings. All other functions and technology will remain consistent.

- Appendix C describes Accessible Podium Design



Display

There are five Display types, referred to as D1, D2, D3, D4, and D5.

D1: This Display type represents touch-enabled, dual display. D1 includes short throw interactive data projectors with minimum 100" white boards.

This is the RDC classroom standard and will be applied to Traditional Classrooms, Trades Classrooms, and Flexible Learning Studios.

D2 and D3: These Display types represent the non-touch, single display options in a room. D2 includes a LCD TV, whereas D3 includes a long throw projector and screen.

These display standards will be applied to Seminar Rooms, Tiered Classrooms, and Lecture Theatres.

D4 and D5: These Display types represent dual display options in the room. This standard includes LCD TVs. D4 includes 80-100" non-touch TVs. D5 includes 80-100" touch TVs.

This standard will only be applied with a proven instructional need and/or dictated by room attributes and approval of a business case.

Display Size

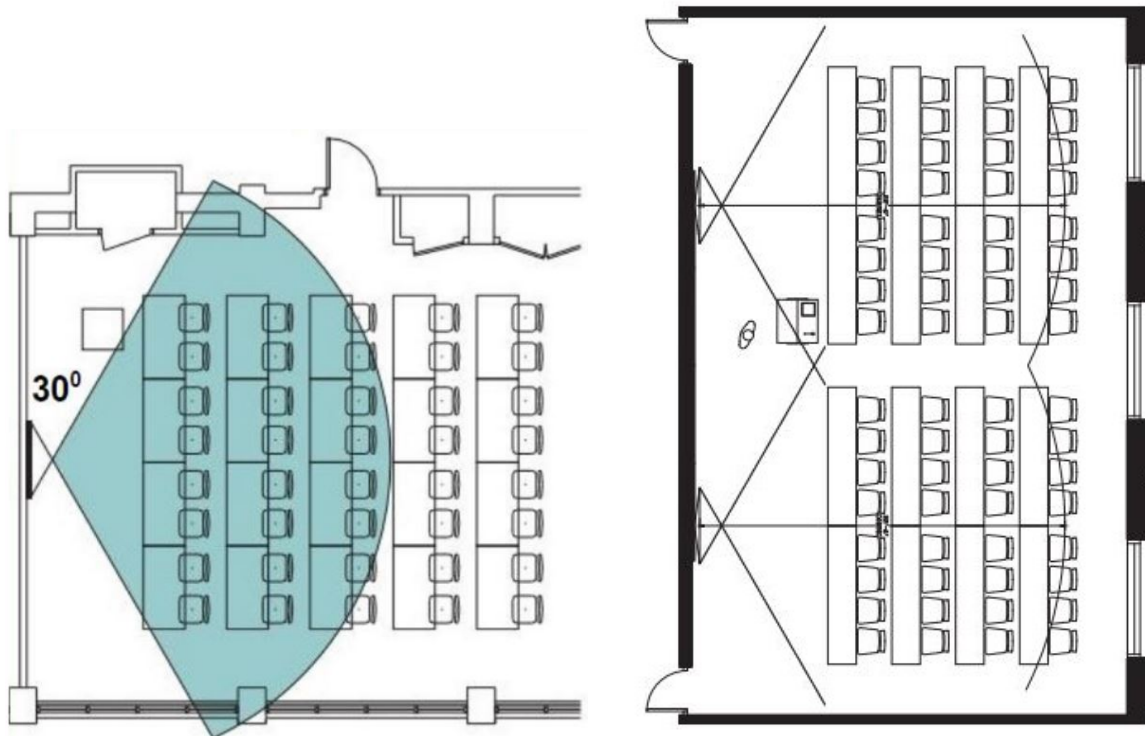
Display type for each room will be determined by room size and configuration. Display size will be based on the following formula.

$$\frac{\text{Display Size (diagonal measurement in inches)}}{3} = \text{Maximum Viewing Distance (in feet)}$$

3

Position of Displays

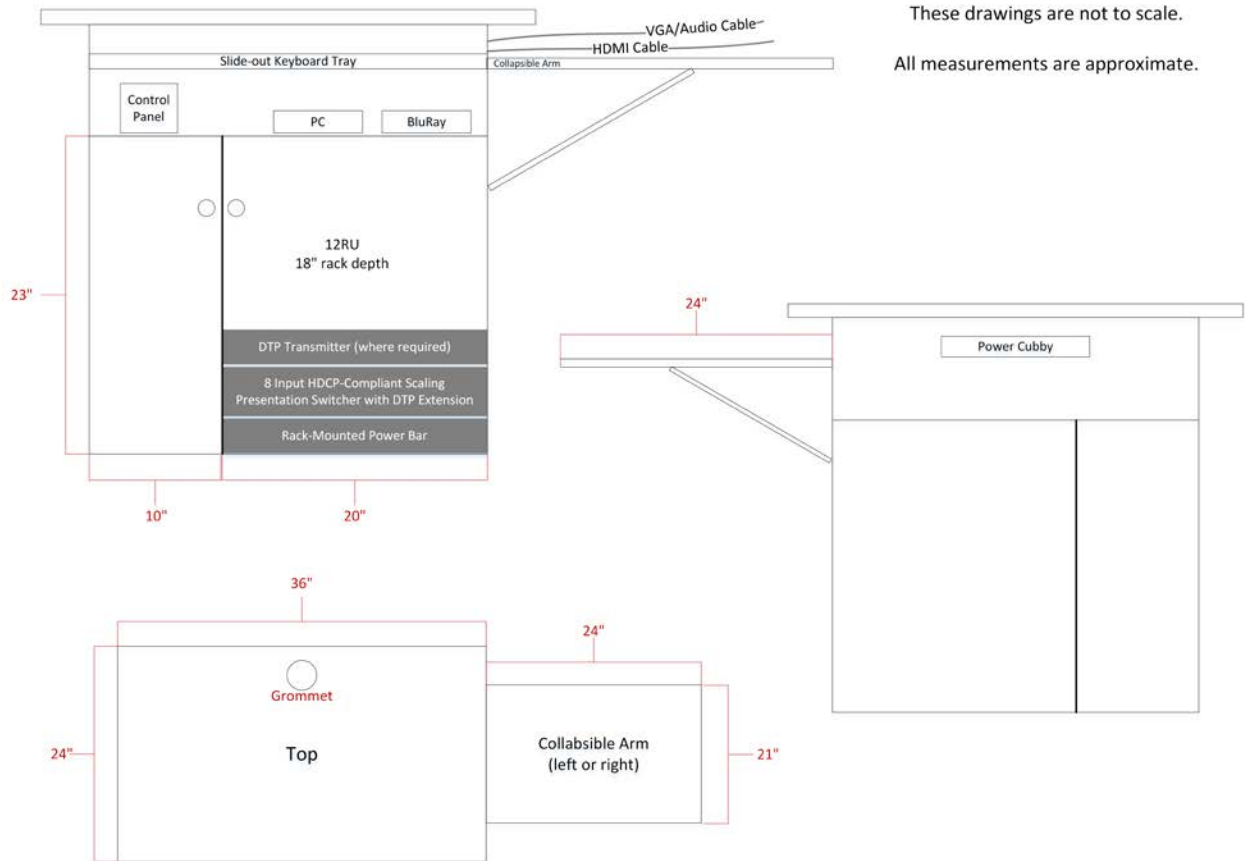
- The bottom of each display will measure a minimum of four feet from the floor.
- Viewing angle will be no less than 30° from the centre of the display. Displays may have to be located off-centre of the mid-point of the wall to account for the students with obstructed sight lines due to the position of the instructor station.



Rooms that require a different display configuration will require approval of a business case.

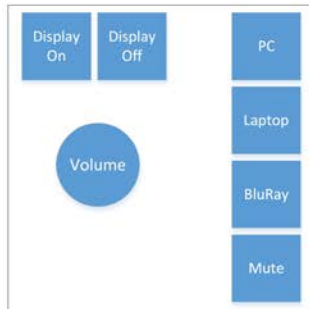


Appendix A: Podium Standards





Appendix B: Design and Function of Extron Switching Panel



Display On
Turn on primary Display
Set Input to PC
Button flashes for 10 seconds
Button remains lit

Display Off
Turn off primary Display
Button flashes for 10 seconds
All buttons unlit

PC
Sets Input to PC
Button flashes for 5 seconds
PC and Display On buttons
remain lit. All other buttons
unlit

Laptop
Sets Input to Laptop.
Button flashes for 5 seconds.
Laptop and Display On
buttons remain lit. All other
buttons unlit.

Volume
Adjusts overall system
volume from 0 – 100.

BluRay
Sets Input to BluRay.
Button flashes for 5 seconds
BluRay and Display On
buttons remain lit. All other
buttons unlit.

Mute
Mutes Video and Audio.
Button flashes Red while
muted. 2nd press unmutes
Video and Audio. Button
unlit.



Appendix C: Accessible Podium Design

To be determined.