21st Century Classroom Initiative

LEARNING SPACES

January 2016
Learning occurs everywhere, from the classroom to the commuter lounge – students and teachers are finding new ways to collaborate, communicate, and engage in learning. Rapidly changing technology continually offers new and diverse approaches to teaching and learning. From digitized content to interactive technologies, education often defines the cutting-edge use of technology.

21st Century Classrooms are designed to be environments that are flexible, mobile, and designed to support active learning. They allow educators and students opportunities to leverage space in unique and purposeful configurations, allowing greater academic content exploration, idea creation, and interactivity.

The ConnSCU 21st Century Classroom project is committed to providing insight-led solutions that bring active learning to life across campus.
21st Century Classroom Initiative

THOUGHTSTARTERS

CLASSROOMS & LIBRARY

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A  Products – Technology | Furniture | Architectural
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C  Construction Budget Estimation Tool
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CLASSROOMS & LIBRARY

Traditional Classrooms
Flipped Classroom
LearnLabs
Blended Library Space
Progressive Library Lab
Maker Space
Simulation Lab
Traditional Classroom - Small | CL-1

**OVERVIEW**

**Footprint:** 27’ x 20’ | 540 SF  
**Students:** 24

**Concept:**
This traditional small active learning space accommodates lecture, discussion and group work. Mobile furniture offers flexibility for various classroom layouts. Numerous wall-mounted and portable whiteboards support brainstorming, documenting ideas and information persistence. File cabinets provide storage for ongoing projects and reference materials. A laptop VGA/HDMI/USB connects directly to the 65” interactive Smartboard to share content, control applications at the board and annotate over visuals using a digital stylus. System on/off and volume control for the built-in speakers are accessible at the front of the board. Students have easy access to power for their personal devices using Thread, a desk-height power distribution solution. For optimal viewing, the furthest participant is positioned no more than 20 feet from the screen.

**Learning/Teaching Styles:**
- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities
TECHNOLOGY PRODUCTS  
(see Appendix A)  
Display: 65" Smartboard

FURNITURE PRODUCTS  
(see Appendix A)  
Seating: Node, Shortcut  
Tables | Desks: Pocket  
Storage: Universal Storage  
Whiteboards: Edge, Verb Easel, Huddle Board  
Other: Thread

BUDGET PRICING  
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)  
AV Technology: $17,600.00  
Furniture: $24,800.00  
*Total Budget Pricing: $42,400.00  

* Budget does not include construction costs. See Appendix C

TIMELINE  
Total Weeks = 16

1 6 8 1

Design  Authorization  Production  Installation
Traditional Classroom – Tiered | CL-2

OVERVIEW

Footprint: 34’ x 21’ | 714 SF
Students: 36

Concept:
This space is ideal for technology-based lectures displaying content on dual 70-75” flat screens at the front of the room. The adjustable-height tables are set to create tiered seating for optimal sightlines. The instructor can share computer content on the dual displays from the lectern. Computer audio is distributed through ceiling-mounted speakers. A Crestron button panel controls system power and volume levels. The teacher’s desk offers an alternative seated location to the lectern, but without the ability to share content or access the control system. An assisted listening system provides audio support for hearing-impaired students. For optimal viewing, the furthest participant is within 18 feet of the screen.

Learning/Teaching Styles:
- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
**TECHNOLOGY PRODUCTS**  
(see Appendix A)

Display: Dual 70-75" Flat Screen Display  
Control Systems: Crestron Button Controller  
Sound Systems: Ceiling Speakers  
Other: Assistive Listening  
Lectern

**FURNITURE PRODUCTS**  
(see Appendix A)

Seating: Node  
Tables | Desks: Groupwork, Verb Instructor Station  
Whiteboards: Edge Series, Verb, Verb Easel

**BUDGET PRICING**  
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $40,000.00  
Furniture: $38,700.00  
*Total Budget Pricing: $78,700.00

*Budget does not include construction costs. See Appendix C

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**TIMELINE**

Total Weeks = 16

1 6 8 1

- Design  
- Authorization  
- Production  
- Installation
Traditional Classroom – Large | CL-3

OVERVIEW

Footprint: 35’ x 45’ | 1,575 SF
Students: 60

Concept:
This large traditional active learning space accommodates lectures, discussions and group work. Mobile furniture offers flexibility for various classroom layouts. Numerous wall-mounted and portable whiteboards support brainstorming, documenting ideas and information persistence. At the lectern, the instructor can share digital content from a desktop, laptop and document camera via a ceiling-mounted LCD projection system onto an 130” diagonal motorized screen. Computer audio is distributed through ceiling recessed speakers. The button panel controls source selection and volume levels. An assisted listening system provides audio support for hearing-impaired students. For optimal viewing, the furthest participant should be within 30 feet of the screen.

Learning/Teaching Styles:
- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities
- Online/Hybrid Courses
**TECHNOLOGY PRODUCTS**
(see Appendix A)

- **Display:** LCD Projector, Projection Screen
- **Control Systems:** Crestron Button Control
- **Video Conferencing:** Document Camera
- **Sound Systems:** Ceiling Speakers, Assistive Listening
- **Other:** Lectern

**FURNITURE PRODUCTS**
(see Appendix A)

- **Seating:** Node
- **Tables | Desks:** Verb Chevron Table, Verb Instructor Station
- **Whiteboards:** Edge Series, Huddle Board, Verb, Verb Easel

**BUDGET PRICING**
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

- **AV Technology:** $31,800.00
- **Furniture:** $49,300.00
- **Total Budget Pricing:** $81,100.00

*Budget does not include construction costs. See Appendix C*

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**TIMELINE**

Total Weeks = 16

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Flipped Classroom | CL-4

**OVERVIEW**

**Footprint:** 35’ x 45’ | 1,575 SF  
**Students:** 35

**Concept:**
The flipped classroom is a pedagogical model in which the typical lecture and homework of a course are reversed. Textbook readings or short video lectures are viewed by students before the class session, while in-class time is devoted to exercises, projects, and discussions. The active learning space supports individual and group work, and mobile furniture offers flexibility for various classroom layouts. Whiteboards support brainstorming, documenting ideas and information persistence. The instructor and students share digital content onto dual 70” flat screens from two HDMI/VGA wall/floor inputs. The button controller selects the source, display destination, and audio levels distributed through recessed ceiling speakers. An assistive listening system provides audio support for hearing-impaired students. Students have easy access to power for their personal devices using Thread, a desk height power distribution solution. For optimal viewing, the furthest student is within 18 feet of the screen.

**Learning/Teaching Styles:**
- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities
TECHNOLOGY PRODUCTS
(see Appendix A)
Display: Dual 70-75” Flat Screen Display
Control Systems: Crestron Button Controller
Sound Systems: Ceiling Speakers
                Assisted Listening

FURNITURE PRODUCTS
(see Appendix A)
Seating: Node, Alight Ottoman, Campfire Big Lounge
Tables | Desks: Verb Chevron Table
        Verb Team Table w/Sit-To-Stand Legs
        Simple Table
Whiteboards: Verb, Verb Easel
Other: Divisio Screen, Thread

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)
AV Technology:  $33,700.00
Acoustics:     $8,800.00
Furniture:     $30,800.00
* Total Budget Pricing:  $73,300.00

* Budget does not include construction costs. See Appendix C

TIMELINE
Total Weeks = 16

1 6 8 1

- Design - Authorization - Production - Installation
LearnLab – Mobile | CL-5

OVERVIEW

Footprint: 30’ x 28’ | 840 SF
Students: 24

Concept:
The mobile LearnLab is a collaborative active learning environment based on four key principles:

- **Triangulation of presentation display** placement provides equal viewing of content from all areas, enabling teaching from anywhere in the room
- **Vertical surfaces** support information persistence and maximize display area
- **Seamless transitions** between learning modes (lecture, group, independent) while maintaining cognitive flow
- **Square room design** with central door access utilizes the corners of the room

Four mobile 42” display media:scapes each support up to 6 laptop connections for democratic content sharing. Mobile media:scape and tables can be rearranged on the fly and adjusted for standing or seated heights. The teacher can move about freely to facilitate class group work or share computer/audio content onto a wall-mounted 70-75” flat screen display with built-in speakers. System is controlled by a wall-mount button panel.

Learning/Teaching Styles:

- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities
TECHNOLOGY PRODUCTS
(see Appendix A)
Display: 70-75" Wall-Mount Flat Display
(4) 42" Flat Screen Displays
Control Systems: Crestron Button Controller

FURNITURE PRODUCTS
(see Appendix A)
Seating: Cachet
Tables | Desks: Verb Team Table w/Sit-To-Stand Legs
Groupwork
Pocket
Interactive: media:scape mobile
Storage: Universal Storage
Whiteboards: Verb, Verb Easel, Huddle Board

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)
AV Technology: $17,300.00
Acoustics: $4,700.00
Furniture: $73,500.00
* Total Budget Pricing: $95,500.00

* Budget does not include construction costs. See Appendix C

TIMELINE
Total Weeks = 16

1 6 8 1

Design  Authorization  Production  Installation
LearnLab – Fixed | CL-6

**OVERVIEW**

**Footprint:** 30’ x 28’ | 840 SF
**Students:** 24

**Concept:**
The LearnLab is a collaborative active learning environment based on four key principles:

- Triangulation display
- Vertical surfaces
- Seamless transitions
- Square room design

Four mobile 42” display media:scapes support up to 6 laptop connections each for democratic content sharing during group work. Media:scape tables with attached monitor shrouds can hold one large or two 42” monitors. Using the 10” touch panel, the teacher can select their computer, a Blu-ray player, a document camera or the active source from any of the four media:scapes to share onto the wall-mounted 70-75” flat screen display or to all media:scape displays. The program audio associated with the main display source is distributed through the ceiling speakers.

**Learning/Teaching Styles:**

- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities

**Footprint:** 30’ x 28’ | 840 SF
**Students:** 24

**Concept:**
The LearnLab is a collaborative active learning environment based on four key principles:

- Triangulation display
- Vertical surfaces
- Seamless transitions
- Square room design

Four mobile 42” display media:scapes support up to 6 laptop connections each for democratic content sharing during group work. Media:scape tables with attached monitor shrouds can hold one large or two 42” monitors. Using the 10” touch panel, the teacher can select their computer, a Blu-ray player, a document camera or the active source from any of the four media:scapes to share onto the wall-mounted 70-75” flat screen display or to all media:scape displays. The program audio associated with the main display source is distributed through the ceiling speakers.

**Learning/Teaching Styles:**

- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities
TECHNOLOGY PRODUCTS
(see Appendix A)

Display: 70-75" Flat Screen Display
(4) 42" Flat Screen Displays
Videoconferencing: Document Camera
Control Systems: Crestron 10" Touch Screen Control
Sound Systems: Ceiling Speakers

FURNITURE PRODUCTS
(see Appendix A)

Seating: Cachet
Tables | Desks: Pocket
Interactive: media:scape (D-shaped, desk height)
Storage: Exponents Mobile Cart
Whiteboards: Verb Easel, Huddle Board

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $67,500.00
Acoustics: $4,700.00
Furniture: $99,200.00
* Total Budget Pricing: $171,400.00

* Budget does not include construction costs. See Appendix C

TIMELINE

Total Weeks = 16

Design  Authorization  Production  Installation

1 6 8 1
**OVERVIEW**

**Footprint:** 54’ x 53’ | 2,900 SF  
**Students:** 40  
**Seating Capacity:** 80

**Concept:**  
Blended learning is the combination of face-to-face instruction and group work in the physical classroom with online teaching and learning. This classroom supports in-person instruction, group collaboration and individual study. During formal instruction, the teacher is positioned at a mobile desk in the center of the space and can share and annotate over laptop content on a 84” interactive flat screen. Group work zones comprised of casual study lounges or huddle areas are important to place adjacent to meeting rooms in wide corridors or alcoves to support break out. Huddle spaces have curved tables and single laptop connections to a flat screen display. Students looking for heads-down focus can choose to work at the desking zone or the private lounge seating. The Privacy Wall enclave with a standing height media:scape and a 42” flat screen is ideal for project team work or small group collaboration. The instructor has control of shutting down all systems from one Crestron button controller. There is no centralized audio distribution.

**Learning/Teaching Styles:**
- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities

*The blended classroom applications represent many settings of today’s transformed library spaces.*
Plan View

1. Group Study Lounge
2. Independent Study Lounge
3. Independent Desking Zone (6-pack)
4. Huddle Zone
TECHNOLOGY PRODUCTS
(see Appendix A)
Display: (2) 32" and (1) 42" Flat Screen Display
84" Interactive Flat Screen
Control Systems: Crestron Button Controller

FURNITURE PRODUCTS
(see Appendix A)
Seating: Cobi, Node, Alight Ottoman, Enea Stool
Buoy, Campfire Half Lounge
Bivi Rumble Seat and Hoodie
Tables | Desks: Bivi Workstation, FrameOne Benching
Campfire Big Table, Campfire Skate Table
Campfire Paper Table, Verb Instructor Station
Interactive: media:scape
Storage: Currency Workwall, Universal Storage
Whiteboards: Verb, Edge Series
Other: SOTO Functional Screen, Campfire Screen
Campfire Big Lamp

ARCHITECTURAL PRODUCTS
(see Appendix A)
Demountable Wall: Privacy Wall

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)
AV Technology: $38,300.00
Acoustics: $16,300.00
Furniture: $109,100.00
Privacy Wall (31 LF) $14,100.00
* Total Budget Pricing: $177,800.00

* Budget does not include construction costs. See Appendix C

TIMELINE
Total Weeks = 16

Design  Authorization  Production  Installation
Progressive Library Lab | CL-8

**OVERVIEW**

**Footprint:** 54’ x 53’ | 2,900 SF  
**Students:** 40  
**Seating Capacity:** 80

**Concept:** The progressive library lab supports technology driven collaboration, combined with a host of individual study settings. The TeamStudio is an active project team space that fosters democratic content sharing with individual 10 connections and 3 displays for viewing. The acoustically separated lounge space created with VIA wall consists of a media:scape lounge, 6 AV connections, stools to perch at ledges and movable seating cubes. Small groups, located at the café booths, can connect to 23” wall mounted flat screens. An intimate private distance learning zone utilizes a 23” flat screen with USB camera/microphone and internet based videoconferencing. For individual study and critical thinking, partially enclosed lounges and adjustable height work surfaces, wrapped in high panels, provide privacy, while the café-style booths and open benching offer visual and audio accessibility. When technology is not needed, small groups can meet in the semi private cul-du-sac. All technology displays automatically power on/off by source detection.

**Learning/Teaching Styles:**
- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities
TECHNOLOGY PRODUCTS
(see Appendix A)

Display: (2) 60-65" and (2) 48" Flat Screen Displays
(1) 42" and (3) 23" Flat Screen Display
LCD Projector, Motorized Projection Screen

Control System: Control Processor

Sound Systems: Ceiling Speakers

FURNITURE PRODUCTS
(see Appendix A)

Seating: Brody, Campfire Big Lounge, Regard, Amia

Tables | Desks: Answer (FrameOne Leg)
Answer w/ Series 5 Height-Adjustable Table
Campfire Personal Table

Interactive: media:scape lounge
media:scape TeamStudio

Storage: Universal Mobile Pedestal (cushion top)
TS Series Mobile Pedestal (cushion top)

Other: SOTO Functional Screen, SOTO Launch Pad

ARCHITECTURAL PRODUCTS
(see Appendix A)

Demountable Wall: V.I.A.

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix D – Construction Costs)

AV Technology: $48,000.00
Acoustics: $16,300.00
Furniture: $151,000.00
V.I.A. Wall (80 LF): $62,300.00

* Total Budget Pricing: $277,600.00

* Budget does not include internet-based videoconferencing licenses construction costs. See Appendix C

TIMELINE

Total Weeks = 17

- Design
- Authorization
- Production
- Installation

1 6 8 2

It is important to place group study lounge or cul-du-sac spaces adjacent to meeting rooms to support break out group work.
**OVERVIEW**

**Footprint:** 40’ x 25’ | 1,000 SF  
**Students:** 22

**Concept:**  
From 3D printing to bio-medical technology, Maker spaces are emerging to facilitate self-directed experimentation and collaborative problem-solving across a range of disciplines. Maker spaces allow students to be tactile, exploring ideas from their brains to their fingertips. The environment is comprised of large, sturdy work surfaces in a variety of shapes and heights, rolling and fixed storage for materials, and hanging/rolling whiteboards for storyboarding and documenting ideas. By incorporating the media:scape mobile, project work can be shared remotely using a portable video document camera.

**Learning/Teaching Styles:**  
- Active Learning  
- Collaborative Learning  
- Experiential Learning  
- Problem-Based Learning  
- Learner-Centered Teaching  
- Learning Communities

*Optional not shown - craft board covers for large surfaces are recommended to allow cutting/gluing/welding activities*
**TECHNOLOGY PRODUCTS**  
(see Appendix A)

- **Display:** 42" Flat Screen Display
- **Video Systems:** Video Document Camera

**FURNITURE PRODUCTS**  
(see Appendix A)

- **Seating:** Node
- **Tables | Desks:** Campfire Big Table, Verb Table, Verb Team Table
- **Interactive:** media:scape mobile
- **Storage:** Universal Storage, Campfire Mobile Cabinet, (2) Tool Chests
- **Whiteboards:** Verb, Groupwork Screen

**BUDGET PRICING**  
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

- **AV Technology:** $3,200.00
- **Acoustics:** $5,600.00
- **Furniture:** $41,600.00

* Total Budget Pricing: $50,400.00

* Budget does not include 3D printer or construction costs. See Appendix C

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**TIMELINE**

Total Weeks = 16

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OVERVIEW

**Footprint:** 33’ x 44’ | 1,452 SF
**Students:** 6-30

**Concept:**

The Simulation Lab is designed to accommodate lecture, hands-on learning of medical diagnostics, procedures and debriefings. Simulation labs includes these spaces:

- **Lecture** – takes place in the instructional classroom setting with mobile tables and chairs. Instructor shares digital content and videos onto dual large displays.
- **Simulation** – small groups of students engage in simulation activities using medical mannequins. Ceiling microphones & cameras used for recording.
- **Control Booth** – a technician uses a reference monitor and touch control system with video camera controller to record simulation for live streaming or archiving. Headset/mic is used to communicate with students during simulation.
- **Debriefing** – students and teachers view recordings and reflect on performance of how they applied theory to practice in large group or intimate settings.

**Learning/Teaching Styles:**

- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities
TECHNOLOGY PRODUCTS
(see Appendix A)

Display: (3) 60-65" Flat Screen Display
Control Systems: Wireless 7" Touch Control
Video Systems: Pan / Tilt / Zoom Camera
Sound Systems: Ceiling Speakers
DSP Sound Processing
Ceiling Microphones
Microphone/Headset
Other: Lectern

FURNITURE PRODUCTS
(see Appendix A)

Seating: Node, Shortcut
Tables | Desks: Verb (standard legs)
Whiteboards: Edge Series

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $84,800.00
Acoustics: $8,200.00
Lighting: $18,200.00
Furniture: $12,500.00
* Total Budget Pricing: $123,700.00

* Budget does not include medical simulation equipment or construction costs. See Appendix C

TIMELINE

Total Weeks = 18

2 6 8 2

- Design
- Authorization
- Production
- Installation
Distance Learning – Satellite Classroom | SH-1

**OVERVIEW**

**Footprint:** 12’ x 15’ | 180 SF  
**Students:** 6-10

**Concept:**  
This space accommodates technology-based remote learning and connects with Teacher Pods SH-2, Distance Learning Classrooms SH-3, and other distance learning systems. The demountable wall system creates a self-contained space with visual and acoustical privacy within an open environment. The media:scape with dual 32” flat screens support presentations and codec-based remote participation. System includes a Codec, 12x camera, microphone and multiple-input switcher. Videoconferencing lighting will optimize far end viewing of local room participants. The media:scape can be specified at desk or standing height. The demountable wall is easily reconfigurable, providing flexibility for the future. A room scheduling system allows space to be reserved for classes, group work and study sessions, maximizing utilization.

**Learning/Teaching Styles:**  
- Active Learning  
- Collaborative Learning  
- Experiential Learning  
- Problem-Based Learning  
- Learner-Centered Teaching

Ergonomic swivel chairs, height adjustable supporting all size students for long sessions.

Dual 32” displays

media:scape can be specified at seated or standing height.

Wall-hung and integrated marker boards

Demountable wall enclave (Privacy Wall)

Room scheduling device
TECHNOLOGY PRODUCTS
(see Appendix A)

Display: Dual 32” Flat Screen Display
Video Conferencing: Cisco Codec and 12x Camera Videoconferencing Lighting
Control System: RoomWizard

FURNITURE PRODUCTS
(see Appendix A)

Seating: Cachet, Alight Bench
Interactive: media:scape, RoomWizard
Whiteboards: Verb
Architectural: Privacy Wall

ARCHITECTURAL PRODUCTS
(see Appendix A)

Demountable Wall: Privacy Wall

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $18,500.00
Acoustics: $1,000.00
Lighting: $2,300.00
Furniture: $25,700.00
Privacy Wall (43 LF): $17,400.00
* Total Budget Pricing: $64,900.00

* Budget does not include construction costs. See Appendix C

TIMELINE

Total Weeks = 16

1 6 8 1

Design  Authorization  Production  Installation
**OVERVIEW**

**Footprint:** 6’ x 6’ | 36 SF

**Students:** 2

**Concept:**
The Teacher Pod accommodates technology-based remote teaching. The self-contained media:scape kiosk has a 23” monitor, camera and specialized lighting for optimal facial illumination. A speakerphone and camera connects to the instructor’s laptop via a USB connection. The instructor’s laptop will utilize an internet –based desktop videoconferencing platforms. The Teacher Pod connections with Distance Learning Satellite SH-1, Distance Learning Classrooms SH-3, and other distance learning systems.

**Basic Alternative:** *(See next page)*
As an alternate solution, a basic table with an electrical clamp-on accessory can be used with an instructor’s computer. The built-in camera and microphone on the instructor’s laptop can be used with internet-based desktop videoconferencing platforms.

**Learning/Teaching Styles:**
- Active Learning
- Collaborative Learning

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23” shared monitor with integrated camera mount and built-in lighting

Height-adjustable swivel stools support all sizes of students for long sessions

media:scape kiosk can be specified at seated or standing height

▲ Plan View
TECHNOLOGY PRODUCTS
(see Appendix A)

Display: 23” Flat Screen Display
Video Conferencing: Camera
Video Lighting
Sound Systems: Tabletop USB Speakerphone

FURNITURE PRODUCTS
(see Appendix A)

Seating: Shortcut, Cobi
Tables | Desks: media:scape Table (standing height)
Interactive: media:scape Kiosk (stool height)

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

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* Total Budget Pricing: $17,500.00

Basic Alternative:

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* Budget does not include internet based videoconferencing licenses or construction costs. See Appendix C

TIMELINE

Total Weeks = 16

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</table>
OVERVIEW

**Footprint:** 30’ x 28’ | 840 SF

**Students:** 50

**Concept:**
This space is designed to accommodate lecture-based teaching and distance learning. Visual sight lines, specialized lighting and acoustical treatments achieve optimal visual and auditory performance. At the custom lectern, the instructor selects sources and display destinations, launches video calls and shares content using the touch control system. The near-end camera/content and remote camera/content are displayed on dual 70” flat screens and to the ceiling mounted projector/motorized screen. The instructor has a 70” confidence monitor to mirror visual content on the main projection screen. Two high resolution cameras provide far-end viewing of instructor and students. Wireless and gooseneck microphones for the instructor and ceiling microphones for students provide local and remote speech reinforcement. An assisted listening system provides audio support for hearing-impaired students.

**Learning/Teaching Styles:**
- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities
TECHNOLOGY PRODUCTS
(see Appendix A)

Display: (3) 70-75" Flat Screen Displays
LCD Projector, Motorized Projection Screen

Control Systems: Crestron 10" Touch Panel Control System
Codec

Video Conferencing: (2) Pan/Tilt/Zoom Tracking Cameras
StepView Matt (camera location detection)

Sound Systems: DSP Sound Processing
Gooseneck Microphone
Wireless Lapel Microphone
Ceiling Speakers
Assistive Listening

Other:
Lectern

FURNITURE PRODUCTS
(see Appendix A)

Seating: Cachet
Tables | Desks: Focus Fixed Lecture Tables

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $153,400.00
Acoustics: $4,700.00
Lighting: $10,500.00
Furniture – Straight Layout: $17,100.00 (tables) $24,800.00 (chairs)

* Total Budget Pricing: $210,500.00

* Budget does not include construction costs. See Appendix C

Alternative
Furniture – Curved Layout: $51,600.00 (tables)
OVERVIEW

Footprint: 30' x 30' | 900 sq. ft.
Students: 32-60

Concept: This space provides ultimate flexibility for active and distance learning with multiple furniture and technology applications.

Distance Learning:
During distance learning, a formal presentation layout provides optimal sightlines using dual 70" flat screens for near end and far end viewing of content and students. Distance learning technology includes microphones for speech reinforcement, pan/tilt/zoom camera(s), integrated codec and digital sound processing.

Active Learning (local participants only):
Mobile tables and chairs can be reconfigured from lecture to group work. Four groups of students have access to the 70" dual displays and the two 60" flat screens on stands. Layouts include formal presentation, conference discussion and team collaboration.

An assistive listening system provides audio support for hearing-impaired students.

Learning/Teaching Styles:
- Active Learning
- Collaborative Learning
- Experiential Learning
- Problem-Based Learning
- Learner-Centered Teaching
- Learning Communities
- Online/Hybrid Courses
**TECHNOLOGY PRODUCTS**
*(see Appendix A)*

- **Display:** Dual 70-75” Flat Screens, Dual 60-65” Flat Screens on stands
- **Control Systems:** Crestron 10” Touch Panel Control
- **Video Conferencing:** Pan/Tilt/Zoom Tracking Camera, StepView Mat, Codec and 12X Camera
- **Sound Systems:** DSP Sound Processing, Table Microphones, Ceiling Speakers, Assisted Listening
- **Other:** Lectern

**FURNITURE PRODUCTS**
*(see Appendix A)*

- **Seating:** Think, Move
- **Tables | Desks:** Waveworks Flip-top Table

**BUDGET PRICING**
*(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)*

- **AV Technology:** $189,000.00
- **Acoustics:** $5,100.00
- **Lighting:** $11,300.00
- **Furniture:** $42,200.00

*Total Budget Pricing: $247,600.00*

*Budget does not include construction costs. See Appendix C*
OVERVIEW

Footprint: 44' x 38' | 1,672 SF
Students: 70-90

Concept:
The space is designed to accommodate lecture-based teaching, optimizing sightlines for digital content on multiple displays. This comfortable and dynamic environment consists of fixed tiered, curved tables with surface-height electrical outlets and swing-away fixed seating. At the lectern, the instructor uses a touch control system to select sources and destinations for content sharing onto the large projection screen and large displays. The instructor can share any input source to any or all displays. Speech reinforcement is supported by gooseneck and wireless lapel microphones and a distributed ceiling speaker system. Video, audio and data are integrated for live streaming or archived for video on demand. An assistive listening system provides audio support for hearing-impaired students. Additional loose seating and open area at the floor level offers seating for handicapped accessibility.

Learning/Teaching Styles:
- Active Learning
- Collaborative Learning
TECHNOLOGY PRODUCTS
(see Appendix A)

Display:
- LCD Projector
- Motorized Projection Screen
- Dual 70-75” Flat Screen Displays

Video Systems:
- Digital Recording/Streaming
- Pan/Tilt/Zoom Tracking Camera

Control Systems:
- Lectern Mount 10” Touch Panel

Video System:
- Digital Recording/Streaming
- Pan/Tilt/Zoom Tracking Camera

Sound Systems:
- DSP Sound Processing
- Gooseneck Microphone
- Wireless Lapel Microphone
- Ceiling Speakers
- Assistive Listening

FURNITURE PRODUCTS
(see Appendix A)

Seating:
- Cachet, Focus Cachet Swing-Away

Tables | Desks:
- Focus Fixed Lecture Tables

Other:
- Lectern

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $129,100.00
Acoustics: $9,400.00
Lighting: $20,900.00
Furniture – Tables: $76,800.00
Furniture – Loose Chairs: $6,100.00

* Total Budget Pricing: $242,300.00

* Budget does not include video on demand hosting service or construction costs. See Appendix C
OVERVIEW

Footprint: 52’ x 72’ | 3,744 SF
Students: 500

Concept:
The auditorium is the largest formal space on campus for students to gather for public address, guest speakers or special events. The space is designed with comfortable fixed, partially reclining seating. A high performance projection system displays content from computer sources or a Blu-ray player onto a 20 foot diagonal motorized screen. A SMART Podium interactive pen display at the lectern allows presenters to easily control and annotate over live computer content displayed content. For “TED Talk” style presentations, a tracking camera and recording device will integrate video, audio and data for live streaming or archived for video on demand. A 48” confidence monitor on a mobile stand will connect at the front riser of the stage. The audio from program sources and wireless microphones are distributed through a front and side array speaker system. An assistive listening system provides support for hearing-impaired students. A touch-unified control system is integrated into the movable lectern and at the control booth or behind the stage.

Learning/Teaching Styles:

- Learning Communities

High performance 13K lumen projection system and tracking camera (not shown)
20 foot diagonal motorized screen
Speaker array sound system
Custom movable lectern SMART podium to house rack, microphones and control system.
Fixed, partially reclining seating
TECHNOLOGY PRODUCTS
(see Appendix A)

Display:
- 13K Lumen Projector
- Motorized Projection Screen
- 48" Flat Screen Display

Control Systems:
- Wall Lectern-Mount Wireless 7" Touch Panel
- SMART Podium

Video System:
- Digital Recording/Streaming
- Pan/Tilt/Zoom Tracking Camera

Sound Systems:
- DSP Sound Processing
- Microphones
- Array Speaker System
- Assisted Listening

Other:
- Lectern

FURNITURE PRODUCTS
(see Appendix A)

Seating:
- Fixed Seating

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $183,200.00
Acoustics: $21,000.00
Lighting: $93,500.00
Furniture: $150,000.00

* Total Budget Pricing: $447,700.00

* Budget does not include video on demand hosting service or construction costs. See Appendix C

TIMELINE

Total Weeks = 24

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<tr>
<th>3</th>
<th>6</th>
<th>12</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Authorization</td>
<td>Production</td>
<td>Installation</td>
</tr>
</tbody>
</table>
Theater | SH-7

OVERVIEW

Footprint: 55’ x 53’ | 2,915 SF
Students: 243
Concept:
The theater is designed for live music, drama productions and digital/video presentations. Comfortable fixed, partially reclining seating accommodates 240 students. A high performance LCD projection system displays content from computer sources or a Blu-ray player onto a 20 foot diagonal retractable motorized screen. Audio from program sources and microphones are distributed through a high fidelity surround-sound system. A communication system and 6 wireless belt packs allows theater technicians to interface with wall speaker systems to support talent readiness, lighting, staging and sound operators. An assistive listening system aids hearing-impaired students. A tracking camera and recording device will integrate video, audio and data for live streaming or archived for video on demand. A touch-unified control system is integrated into the movable lectern and at the control booth or behind the stage.

Learning/Teaching Styles:
• Learning Communities
TOTAL WEEKS = 24

**TECHNOLOGY PRODUCTS**
(see Appendix A)

- **Display:**
  - 13K Lumen Projector
  - Motorized Projection Screen

- **Control Systems:**
  - Wall/Lectern-Mount 8” Touch Control

- **Video System:**
  - Digital Recording/Streaming
  - Pan/Tilt/Zoom Tracking Camera

- **Sound Systems:**
  - Wireless Intercom System
  - DSP Sound Processing
  - Microphones
  - Surround Sound System
  - Assisted Listening

- **Other:**
  - Lectern

**FURNITURE PRODUCTS**
(see Appendix A)

- **Seating:**
  - Fixed Seating

**BUDGET PRICING**
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

- **AV Technology:** $206,100.00
- **Acoustics:** $16,300.00
- **Lighting:** $72,800.00
- **Furniture:** $73,000.00

* Total Budget Pricing: $368,200.00

*Budget does not include video on demand hosting service or construction costs. See Appendix C*
OVERVIEW

**Footprint:** 60’ x 109’ | 6,480 SF  
**Students:** 300+

**Concept:**  
The Commons café space is designed to accommodate dining, socializing, small and large group meetings and presentations with a variety of settings and places to charge personal devices. Applications include intimate café tables, booths and group tables with various seating postures and color for visual interest. The audiovisual system will distribute content from 3 CATV tuners, a digital signage source and a laptop computer to the video wall, two sets of dual 55” displays on both sides of two columns, and a single 90” display.

A wall-mounted touch panel or iPad can select any source to be viewed on one or more displays. CATV audio will be heard at low volume through the display’s built-in speakers. During large formal presentations, the projector and 180” diagonal motorized screen will provide additional visual reference. Voice reinforcement and computer audio are distributed through recessed ceiling speakers. A tracking camera and recording device will integrate video, audio and data for live streaming or archived for video on demand. An assistive listening system aids hearing-impaired students.

**Learning/Teaching Styles:**  
- Learning Communities
Standing /Stool-Height Area
Booth with auto/on 23” displays for laptop/table connection

Large Presentation View with Projection Screen, Video Wall
**TECHNOLOGY PRODUCTS**  
*(see Appendix A)*

**Display:**  
(5) 90” Flat Screen Displays  
(4) 55-60” Flat Screen Displays  
LCD Projection System  
Motorized Projection Screen

**Video System:**  
Digital Recording/Streaming  
Pan/Tilt/Zoom Tracking Camera

**Control Systems:**  
Wall Mount 10” Touch Control  
iPad and Tuners *(Owner Furnished Equipment)*

**Sound Systems:**  
DSP Sound Processing  
Wireless Microphones  
Ceiling Speakers  
Assisted Listening

**Other:**  
Lectern

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**FURNITURE PRODUCTS**  
*(see Appendix A)*

**Seating:**  
Shortcut, Move, Scoop, Sorrel, Bix  
National Fringe Lounge

**Tables | Desks:**  
Campfire Big Table, Groupwork Tables

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**BUDGET PRICING**  
*(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)*

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
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<tr>
<td>AV Technology</td>
<td>$284,000.00</td>
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<tr>
<td>Acoustics</td>
<td>$36,300.00</td>
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<tr>
<td>Lighting</td>
<td>$161,800.00</td>
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<td>Furniture</td>
<td>$152,700.00</td>
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<td><strong>Total Budget Pricing</strong></td>
<td><strong>$634,800.00</strong></td>
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</table>

*Budget does not include cable tuners, digital signage or construction costs. See Appendix C*
Tech Café | SH-9

OVERVIEW

Footprint: 56' x 50' | 2,800 SF
Students: 100+

Concept:
The Tech Café allows students and staff to get their technology questions answered in a comfortable setting while multi-tasking. Casual settings include stool height tech bar, standing height group table, booths and lounge seating. System will consist of a 65” display flanked by two 55” displays. The center display will run off a dedicated computer for general messaging to students (tips and tricks, wait times, hours of operations). Music will be distributed through ceiling speakers. Students’ laptops can connect to the 55” displays to view diagnostics and troubleshooting during their consulting session. In the four booth, student laptops or tablets will connect to 23” flat screen displays.

Learning/Teaching Styles:
- Learning Communities
TIMELINE

Total Weeks = 17

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<th>1</th>
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<tr>
<td>Design</td>
<td>Authorization</td>
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TECHNOLOGY PRODUCTS
(see Appendix A)

Display:
(1) 65” Flat Screen Display
(2) 55” Flat Screen Displays
(4) 23” Flat Screen Displays

Control Systems:
Wall Mount 7” Touch Control

Sound Systems:
Ceiling Speakers

Other:
Cable Cubbies

FURNITURE PRODUCTS
(see Appendix A)

Seating:
Bix, Jenny, Regard, Shortcut, Sorrel

Tables | Desks:
Campfire Big Table, Groupwork Tables

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $53,900.00
Acoustics: $15,700.00
Lighting: $35,000.00
Furniture: $64,800.00
Custom Bar Millwork: $9,650.00

* Total Budget Pricing: $179,050.00

* Budget does not include construction costs. See Appendix C
**Meeting Room | SH-10**

**OVERVIEW**

**Footprint:** 14’ x 19’ | 266 SF  
**Students:** 6-8

**Concept:**  
The meeting room is intended to be utilized by leadership and administration for presentations and audio conferencing. The seating, table and FlexFrame wall system create a quality and technology optimized space. The seating incorporates the latest technology and ergonomics, while the conferencing table has a recessed cable management system and access for power and cables within the table leg. Laptops will connect at the table to share content on a 65” flat screen mounted on the wall system. Six Cardioid Boundary microphones will be installed flush to the table surface for audio conferencing. Computer audio and far end audio will be distributed through ceiling speakers. System power, source selection, audio dialing and volume control are all controlled by a 8” wireless touch panel.

**Optional:**  
Videoconferencing capabilities can be added to the system. A Cisco camera/Codec would reside on the shelf of the wall system, under the flat screen. The touch panel design will accommodate videoconferencing dialing, camera control and source selection.
**TECHNOLOGY PRODUCTS**
(see Appendix A)

- **Display:** 65" Flat Screen
- **Control Systems:** Wireless 8" Touch Panel
- **Sound Systems:**
  - Flush Mount Cardiod Boundary Microphones
  - DSP Sound Processing
  - Ceiling Speakers

**Optional**

- **Video Conferencing:** Cisco Codec and 12x Camera

**FURNITURE PRODUCTS**
(see Appendix A)

- **Seating:** Gesture
- **Tables | Desks:** Convene
- **Other:** FlexFrame

**BUDGET PRICING**
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

- **AV Technology:** $34,800.00
- **Acoustics:** $1,500.00
- **Lighting:** $3,300.00
- **Furniture:** $20,000.00

* **Total Budget Pricing:** $59,600.00

*Budget does not include construction costs. See Appendix C

**Videoconferencing:** $19,000.00

Camera/Codec fully integrated with matrix routing and additional programming
CAMPUS-WIDE SYSTEMS

Room Scheduling System
Digital Signage
AV Monitoring System
Blue Jeans Videoconferencing
Kaltura MediaSpace
OVERVIEW

Concept:
A scheduling system manages open and private collaborative spaces effectively for planned and maximum utilization.

Spaces can be reserved at the device located at each space or through Microsoft Exchange or similar enterprise wide calendar system.

The scheduling system can generate reports on occupancy, room usage and reservation patterns to provide insight into space utilization.

TECHNOLOGY PRODUCTS
(see Appendix A)

Control Systems: Steelcase Roomwizard or Crestron 7” Wall-Mount Touch Screen software and owner furnished servers required

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $18,800.00

*Budget based on 5 scheduling devices with Microsoft Outlook Integration.

TIMELINE

Total Weeks = 12

1 6 4 1

Design  Authorization  Production  Installation
OVERVIEW

Concept:
Digital signage is an enterprise wide solution that allows you to create and distribute content to display across the campus.

Content Management - Create, edit, approve and schedule your messages to dedicated flat screens across the campus from a central web-based interface.

Optional Data Integration - Import dynamic content from Facebook, Twitter, RSS and ATOM feeds, calendars.

Scalability - System can have one or more channels, each with an independent “slide show” of content. Players and receivers can easily be added to the system for additional display.

TECHNOLOGY PRODUCTS
(see Appendix A)

Display: 65” Flat Screens
Control Systems: Digital Signage Server, Players and Receivers

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $44,000.00

* Budget based on 5 display locations. Aggregated unit estimate is $8800 per display. Excludes data integration.
OVERVIEW

Concept:
Supporting faculty 24/365 with immediate response to tech support requests, the AV monitoring system a powerful asset management software tool that enables you to keep track of all the AV systems across the campus.

The dashboard is a well designed interface that provides a complete listing of all systems and locations with graphics indicators reflecting projector power status, lamp life, alerts and other vital statistics. The system sends alerts and notifications if the system loses power or is disconnected from the network.

This tool minimizes unproductive time AV support staff spends traveling to each system to check room status, manually view and record projector lamp life, provide in-person help to users, and turn off systems one by one at the end of each day.

TECHNOLOGY PRODUCTS
(see Appendix A)

Control Systems: Crestron RoomView or Extron Globalviewer
software and owner furnished servers required

BUDGET PRICING
(see Appendix B – Budgetary Parameters & Appendix C – Construction Costs)

AV Technology: $16,800.00

* Budget is based on monitoring 15 campus AV systems

* Meetings with IT staff on network compatibility will be required before final quoting and deployment.
OVERVIEW

Concept:
Blue Jeans videoconferencing is here to transform the way that your institution runs, helping students learn, faculty members teach and staff collaborate. All you need is a camera and Internet connection to join a professional-grade video interaction.

Top Uses of Blue Jeans in Education:

1. **Hybrid Classes**: students join courses in person for portions and online via Blue Jeans for other portions. This can include co-teaching initiatives with faculty across multiple campuses.

2. **Extended Office Hours**: professors make themselves available to students after hours when both parties typically aren’t on campus.

3. **Student Study Groups**: students work on group projects from anywhere; popular scenarios include quick sync-ups and off-hour meetings, particularly with grad students who are more likely to live off-campus.

4. **Staff / Faculty Collaboration**: department meetings, administrative meetings, and software trainings are often held over video.

5. **Faculty & Staff Interviews**: early-round interviews for faculty and C-Level positions are conducted via Blue Jeans to cut on travel expenses.

6. **Student & Faculty Recruiting**: Leverage the power of video to expand your outreach and create that intimate interaction that help sells your institution to prospects with virtual campus tours.

**Devices Supported**
Web browser, Desktop App, iOS, Android, Conference Room Systems, Phone Dial-in

**Access**
Unlimited meetings, minutes, recording and storage for anyone on campus. Visit [connscu.bluejeans.com](http://connscu.bluejeans.com) today to get started!
OVERVIEW

Concept:
Using MediaSpace, your campus can securely create, upload, share, search, browse, and watch both live and on-demand videos, presentations, and other rich media content anytime anywhere.

MediaSpace provides superb cross-device user experience, unmatched user engagement capabilities, and powerful control and governance tools.

In higher education, MediaSpace encourages community and collaboration through the power of online video. MediaSpace empowers everybody on campus from librarians, marketing, communications, Cabinets, and the mobile student to create, share, comment, and learn with video.

Kaltura MediaSpace is available on campus today. Contact Bill Krysinski (bkrysinski@charteroak.edu) to learn more.
APPENDIX

- Products
  - Technology
  - Furniture
  - Architectural

Budgetary Parameters
Construction Budget Estimation Tool
## Appendix A | Products – Technology

<table>
<thead>
<tr>
<th>Display</th>
<th>23” Flat Display by Sharp/Samsung/NEC</th>
<th>32” Flat Display by Sharp/Samsung/NEC</th>
<th>42” Flat Display by Sharp/Samsung/NEC</th>
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<tbody>
<tr>
<td>60-65” Flat Display</td>
<td>LCD Projector by NEC/Epson</td>
<td>Motorized Projection Screen by Da-Lite</td>
<td>Projection Screen by Draper/Da-Lite</td>
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<td>70-75” Flat Display</td>
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<tr>
<td>13K Lumen Projector</td>
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<td>84” Interactive Display</td>
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### Appendix A | Products – Technology

#### Control Systems

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<th>Control System</th>
<th>Manufacturer</th>
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<tr>
<td>Wall Mount Controller</td>
<td>Extron</td>
</tr>
<tr>
<td>Button Controller</td>
<td>Crestron</td>
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<tr>
<td>Lectern Mount Wireless 8” Touch Panel</td>
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<tr>
<td>Wall-Mount/Wireless 8” Touch Panel</td>
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<tr>
<td>Wall/Lectern 7” Touch Control</td>
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<tr>
<td>Wall/Lectern 10” Touch Control</td>
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<td>RoomWizard</td>
<td>Steelcase</td>
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#### Video Systems and Video Conferencing

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<tr>
<td>Codec and 12X Camera</td>
<td>Cisco</td>
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<td>Digital Signage Server, Players and Receivers</td>
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<td>Document Camera</td>
<td>Elmo/Epson</td>
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<td>Pan/Tilt/Zoom Tracking Camera</td>
<td>Vaddio</td>
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<td>SMART Podium</td>
<td>SMART Technologies</td>
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<td>Step View Mat</td>
<td>Vaddio</td>
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### Video Systems and Video Conferencing (continued)

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<th>USB Camera</th>
<th>Video Lighting</th>
<th>Video Conferencing Lighting</th>
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<tbody>
<tr>
<td>by Panasonic, Cisco, Vaddio</td>
<td>by Brightlines</td>
<td>by Lithonia Lighting</td>
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### Sound Systems

<table>
<thead>
<tr>
<th>6.5” White In-Ceiling Speakers</th>
<th>Wireless Boundary Transmitter, Cardioido</th>
<th>DSP Sound Processing</th>
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<tbody>
<tr>
<td>by Crestron /JBL</td>
<td>by Shure</td>
<td>by Biamp</td>
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<thead>
<tr>
<th>QT Pro Sound Masking</th>
<th>Tabletop USB Speakerphone</th>
<th>Ceiling Microphones</th>
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<tbody>
<tr>
<td>by Steelcase</td>
<td>by ClearOne</td>
<td>by Clockaudio</td>
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<tr>
<th>Assistive Listening</th>
<th>Gooseneck Microphone</th>
<th>Wireless Lapel Microphone</th>
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<tr>
<td>by Listen Technologies</td>
<td>by Clock Audio</td>
<td>by Shure</td>
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<table>
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<tr>
<th>Microphone/Headset</th>
<th>Array Speaker System</th>
<th>Wireless Intercom System</th>
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<tbody>
<tr>
<td>by beyerdynamic</td>
<td>by JBL</td>
<td>by ClearCom</td>
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<table>
<thead>
<tr>
<th>Table Microphones</th>
<th>Cardioid Boundary Microphones</th>
</tr>
</thead>
<tbody>
<tr>
<td>by Clockaudio</td>
<td>By Shure</td>
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## Appendix A | Products – Technology

### Other

<table>
<thead>
<tr>
<th>Lectern by Marshall Furniture</th>
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<tbody>
<tr>
<td>Cable Cubby 202 by Extron</td>
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<tr>
<td>Cable Cubby 500 by Extron</td>
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## Appendix A | Products – Furniture

### Seating

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<tr>
<th><strong>Alight Bench</strong> by Turnstone</th>
<th><strong>Alight Ottoman</strong> by Turnstone</th>
<th><strong>Amia</strong> by Steelcase</th>
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<tbody>
<tr>
<td><strong>Bivi Rumble Seat and Hoodie</strong> by Turnstone</td>
<td><strong>Bix</strong> by Coalesse</td>
<td><strong>Bix Sectional with powered tables</strong> by Coalesse</td>
</tr>
<tr>
<td><strong>Bivi Rumble Seat and Hoodie</strong> by Turnstone</td>
<td><strong>Bix</strong> by Coalesse</td>
<td><strong>Bix Sectional with powered tables</strong> by Coalesse</td>
</tr>
<tr>
<td><strong>Brody</strong> by Steelcase</td>
<td><strong>Buoy</strong> by Turnstone</td>
<td><strong>Cachet</strong> by Steelcase</td>
</tr>
<tr>
<td><strong>Brody</strong> by Steelcase</td>
<td><strong>Buoy</strong> by Turnstone</td>
<td><strong>Cachet</strong> by Steelcase</td>
</tr>
<tr>
<td><strong>Campfire Big Lounge</strong> by Turnstone</td>
<td><strong>Campfire Half Lounge</strong> by Turnstone</td>
<td><strong>Cobi</strong> by Steelcase</td>
</tr>
<tr>
<td><strong>Campfire Big Lounge</strong> by Turnstone</td>
<td><strong>Campfire Half Lounge</strong> by Turnstone</td>
<td><strong>Cobi</strong> by Steelcase</td>
</tr>
<tr>
<td><strong>Cobi</strong> by Steelcase</td>
<td><strong>Enea Stool</strong> by Coalesse</td>
<td><strong>Focus Cachet Swing-Away</strong> by American Seating (with fixed table)</td>
</tr>
<tr>
<td><strong>Cobi</strong> by Steelcase</td>
<td><strong>Enea Stool</strong> by Coalesse</td>
<td><strong>Focus Cachet Swing-Away</strong> by American Seating (with fixed table)</td>
</tr>
<tr>
<td><strong>Fringe</strong> by National</td>
<td><strong>Gesture</strong> by Steelcase</td>
<td><strong>Jenny</strong> by Steelcase</td>
</tr>
<tr>
<td><strong>Fringe</strong> by National</td>
<td><strong>Gesture</strong> by Steelcase</td>
<td><strong>Jenny</strong> by Steelcase</td>
</tr>
</tbody>
</table>
## Appendix A | Products – Furniture

### Seating

<table>
<thead>
<tr>
<th>Jenny by Steelcase (round back)</th>
<th>Move by Steelcase</th>
<th>Node by Steelcase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regard by Steelcase</td>
<td>Scoop by Turnstone</td>
<td>Shortcut by Turnstone</td>
</tr>
<tr>
<td>$10,700 with monitor, product only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sorrel by Steelcase</th>
<th>Think by Steelcase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Tables | Desks

<table>
<thead>
<tr>
<th>Table Type</th>
<th>Manufacturer</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answer</td>
<td>Steelcase</td>
<td>(with FrameOne leg)</td>
<td>$7,600; 6-pack, product only</td>
</tr>
<tr>
<td>Campfire Big Table</td>
<td>Turnstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Campfire Skate Table</td>
<td>Turnstone</td>
<td></td>
<td>$4100 product only</td>
</tr>
<tr>
<td>Focus Fixed Lecture Tables</td>
<td>American Seating</td>
<td>(straight, curved)</td>
<td></td>
</tr>
<tr>
<td>media:scape table</td>
<td>Steelcase</td>
<td>(standing height w/clamp-on electric)</td>
<td></td>
</tr>
<tr>
<td>Simple Table</td>
<td>Turnstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Campfire Paper Table</td>
<td>Turnstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Convene</td>
<td>Steelcase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FrameOne Benching</td>
<td>Steelcase</td>
<td></td>
<td>$12,800 6-pack, product only</td>
</tr>
<tr>
<td>Groupwork</td>
<td>Steelcase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pocket</td>
<td>Steelcase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Series 5 Height-Adjustable Table</td>
<td>Steelcase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verb Chevron Table</td>
<td>Steelcase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verb Instructor Station</td>
<td>Steelcase</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Appendix A | Products – Furniture

## Tables | Desks

<table>
<thead>
<tr>
<th></th>
<th>Verb Table by Steelcase (standard legs)</th>
<th>Verb Table by Steelcase (rectangle shape with Sit-to-Stand legs)</th>
<th>Verb Table Overview of Shapes by Steelcase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waveworks Flip-Top Table by National</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


## Appendix A | Products – Furniture

### Interactive

<table>
<thead>
<tr>
<th>Image</th>
<th>Description</th>
<th>Vendor</th>
</tr>
</thead>
</table>
| ![media:scape kiosk](image) | media:scape kiosk  
(D-shaped tables, standing height shown, seated height available) | Steelcase |
| ![media:scape team studio](image) | media:scape TeamStudio  
(by Steelcase) | Steelcase |
| ![media:scape lounge](image) | media:scape lounge  
(by Steelcase) | Steelcase |

<table>
<thead>
<tr>
<th>Distance Learning Private Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>$9,500 with monitor, camera, microphone, product only</td>
</tr>
</tbody>
</table>

### Storage

<table>
<thead>
<tr>
<th>Image</th>
<th>Description</th>
<th>Vendor</th>
</tr>
</thead>
</table>
| ![Campfire Mobile Cabinet](image) | Campfire Mobile Cabinet  
(by Turnstone) | Turnstone |
| ![Currency Workwall](image) | Currency Workwall  
(by Steelcase) | Steelcase |
| ![Exponents Mobile Cart](image) | Exponents Mobile Cart  
(by Coalesse) | Coalesse |

| ![TS Series Mobile Pedestal](image) | TS Series Mobile Pedestal  
(cushion top) | Steelcase |
| ![Universal Storage](image) | Universal Storage  
(by Steelcase) | Steelcase |
| ![Universal Mobile Pedestal](image) | Universal Mobile Pedestal  
(cushion top) | Steelcase |

| ![Tool Chest](image) | Tool Chest  
(by Craftsman) | Craftsman |

$39,000 furniture, $7,600 displays, product only

Distance Learning Private Space

$9,500 with monitor, camera, microphone, product only

$39,000 furniture, $7,600 displays, product only
## Appendix A | Products – Furniture

### Whiteboards

<table>
<thead>
<tr>
<th>Image</th>
<th>Product Name</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Edge Series Whiteboard" /></td>
<td>Edge Series Whiteboard by Steelcase</td>
<td>Steelcase</td>
</tr>
<tr>
<td><img src="image" alt="Huddle Board" /></td>
<td>Huddle Board by Steelcase</td>
<td>Steelcase</td>
</tr>
<tr>
<td><img src="image" alt="Groupwork Screen" /></td>
<td>Groupwork Screen Mobile Whiteboard by Steelcase</td>
<td>Steelcase</td>
</tr>
</tbody>
</table>

*Edge Series Whiteboard<br>(Low gloss can be used for projection surface)*

<table>
<thead>
<tr>
<th>Image</th>
<th>Product Name</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Verb Whiteboard" /></td>
<td>Verb Whiteboard by Steelcase</td>
<td>Steelcase</td>
</tr>
<tr>
<td><img src="image" alt="Verb Whiteboard Easel" /></td>
<td>Verb Whiteboard Easel by Steelcase</td>
<td>Steelcase</td>
</tr>
<tr>
<td><img src="image" alt="Groupwork Mobile Easel" /></td>
<td>Groupwork Mobile Easel by Steelcase</td>
<td>Steelcase</td>
</tr>
</tbody>
</table>

*Verb Whiteboard<br>(light weight mesh)*

### Other

<table>
<thead>
<tr>
<th>Image</th>
<th>Product Name</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Campfire Big Lamp" /></td>
<td>Campfire Big Lamp by Turnstone</td>
<td>Turnstone</td>
</tr>
<tr>
<td><img src="image" alt="Campfire Screen" /></td>
<td>Campfire Screen by Turnstone</td>
<td>Steelcase</td>
</tr>
<tr>
<td><img src="image" alt="Divisio Screen" /></td>
<td>Divisio Screen by Steelcase</td>
<td>Steelcase</td>
</tr>
</tbody>
</table>

*Campfire Screen<br>(light weight mesh)*

<table>
<thead>
<tr>
<th>Image</th>
<th>Product Name</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="FlexFrame" /></td>
<td>FlexFrame by Steelcase</td>
<td>Steelcase</td>
</tr>
<tr>
<td><img src="image" alt="SOTO Launch Pad" /></td>
<td>SOTO Launch Pad by Steelcase</td>
<td>SOTO</td>
</tr>
<tr>
<td><img src="image" alt="SOTO Functional Screen" /></td>
<td>SOTO Functional Screen by Steelcase</td>
<td>SOTO</td>
</tr>
</tbody>
</table>

*FlexFrame<br>(under carpet tile power distribution with 6 outlet desk height hub)*

<table>
<thead>
<tr>
<th>Image</th>
<th>Product Name</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Thread" /></td>
<td>Thread by Steelcase</td>
<td>Steelcase</td>
</tr>
<tr>
<td><img src="image" alt="Clamp-On Power/Data Strip" /></td>
<td>Clamp-On Power/Data Strip by Steelcase</td>
<td>Steelcase</td>
</tr>
</tbody>
</table>
## Appendix A | Products – Architectural

<table>
<thead>
<tr>
<th>Demountable Walls</th>
<th>Privacy Wall by Steelcase</th>
<th>V.I.A. by Steelcase</th>
</tr>
</thead>
</table>

Appendix A | Products – Architectural
Furniture and AV Technology Budgetary Pricing

- **Pricing** is to be used for budgetary purposes only. The budget include products, design, project management, delivery and installation.

- **Final product pricing** will be determined based on parameters including but not limited to:
  - final finishes
  - product quantities
  - State of Connecticut contract pricing when applicable

- **Final labor pricing** will be determined based on parameters including but not limited to:
  - Site conditions
  - Straight time or overtime hours
  - Non-prevailing or prevailing wages based on the State of Connecticut contract
### Appendix C | Construction Budget Estimation Tool

#### SQUARE FOOTAGE

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>$ per SF</th>
<th>500</th>
<th>QTY</th>
<th>SUBTOTAL</th>
<th>1000</th>
<th>QTY</th>
<th>SUBTOTAL</th>
<th>1500</th>
<th>QTY</th>
<th>SUBTOTAL</th>
<th>3000</th>
<th>QTY</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walls: Metal framing, Drywall, Insulation, Taping</td>
<td>$10.35</td>
<td>500</td>
<td>$5,175.00</td>
<td>1000</td>
<td>$10,350.00</td>
<td>1500</td>
<td>$15,525.00</td>
<td>3000</td>
<td>$31,050.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Floors: Carpet tile/ vinyl base includes removal of existing materials</td>
<td>$4.00</td>
<td>500</td>
<td>$2,000.00</td>
<td>1000</td>
<td>$4,000.00</td>
<td>1500</td>
<td>$6,000.00</td>
<td>3000</td>
<td>$12,000.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Painting</td>
<td>$0.65</td>
<td>500</td>
<td>$325.00</td>
<td>1000</td>
<td>$650.00</td>
<td>1500</td>
<td>$975.00</td>
<td>3000</td>
<td>$1,950.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceiling: Grid and Tiles</td>
<td>$4.00</td>
<td>500</td>
<td>$2,000.00</td>
<td>1000</td>
<td>$4,000.00</td>
<td>1500</td>
<td>$6,000.00</td>
<td>3000</td>
<td>$12,000.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lighting</td>
<td>$7.00</td>
<td>500</td>
<td>$3,500.00</td>
<td>1000</td>
<td>$7,000.00</td>
<td>1500</td>
<td>$10,500.00</td>
<td>3000</td>
<td>$21,000.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blocking: (for Flat Screen or Projector Mount); Excludes painting</td>
<td>$500.00</td>
<td>1</td>
<td>$500.00</td>
<td>2</td>
<td>$1,000.00</td>
<td>2</td>
<td>$1,000.00</td>
<td>4</td>
<td>$2,000.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Floor Cores and Back Boxes</td>
<td>$350.00</td>
<td>1</td>
<td>$350.00</td>
<td>2</td>
<td>$700.00</td>
<td>2</td>
<td>$700.00</td>
<td>3</td>
<td>$1,050.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical: Cabling &amp; Duplex Outlets</td>
<td>$250.00</td>
<td>4</td>
<td>$1,000.00</td>
<td>6</td>
<td>$1,500.00</td>
<td>8</td>
<td>$2,000.00</td>
<td>12</td>
<td>$3,000.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network: Cabling and Termination Plates</td>
<td>$275.00</td>
<td>4</td>
<td>$1,100.00</td>
<td>6</td>
<td>$1,650.00</td>
<td>8</td>
<td>$2,200.00</td>
<td>12</td>
<td>$3,300.00</td>
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</tr>
<tr>
<td><strong>TOTAL ESTIMATES:</strong></td>
<td></td>
<td></td>
<td>$15,950.00</td>
<td></td>
<td>$30,850.00</td>
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<td>$44,900.00</td>
<td></td>
<td>$87,350.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All pricing includes materials, non-union labor, regular time.
Pricing is budgetary and subject to change upon final inspection of scope of work.
Hazardous material removal excluded from estimates.
STEELCASE LIMITED LIFETIME WARRANTY
for Americas

YOU CAN DEPEND ON US. OUR PRODUCTS. OUR SERVICES. OUR PEOPLE.

Steelcase Inc. ("Steelcase") warrants that Steelcase®, Turnstone®, Steelcase® Health, and Details® brand products are free from defects in materials and workmanship for the life of the product, except as set forth below. This warranty is valid from the date of delivery, regardless of shift usage, and covers the original purchaser for products delivered in the Americas: United States, Canada, Mexico, Latin America and the Caribbean.

EXCEPTIONS TO THE LIFETIME COVERAGE

SYSTEMS AND STORAGE SOLUTIONS

12 years
Modular Power, mechanisms, Post and Beam textile in-fills, casters and glides, lighting fixtures

5 years
Architectural doors, office systems doors, Steelcase Health overbedtables, height adjustable mechanisms, articulating and adjustable arms, lighting power supplies, ballasts and LED lighting components

3 years
Personal caddy pad

SEATING

12 years
Mechanisms, pneumatic cylinders, arm caps, foam, casters and glides, Max Stack®. Max Stack®II, Domino, wood frame side chairs, tablet arms, Node™ personal worksurface, Verb™ teaching station lectern and plastic components, Steelcase Health recliner components and optional accessories other than internal structure

5 years
Steelcase Health recliner, sleeper and central locking and trendelenburg mechanisms and associated levers and pedals, Steelcase Health heat and massage units

INTERACTIVE AND ACOUSTIC SOLUTIONS

12 years
éno® trim and brackets

5 years
ejno Play and éno projector mounts

3 years
ejno technology components and accessories, éno stylus, and éno receiver; media:scape® technology components; RoomWizard™, Qt PRO sound masking control modules

1 year
Certified refurbished RoomWizard™

BOARDS AND EASELS

5 years
Premium Tackboards

3 years
Huddleboard™, Answer® markerboard surfaces

DETAILS®

12 years
Keyboard mechanisms, flat panel monitor arms, lighting fixtures, vertical cable carrier

5 years
Height AdjustTable mechanisms, lighting power supplies, ballasts and LED lighting components, launch pad power components, and urethane edge treatments

3 years
Executive office tools, palm rests, Kybun®, Power Pincher®, USB charging station, Walkstation treadmill parts and wear items (1 year service and labor)

SURFACES

12 years
Laminate, wood veneer and solid surface, RTF Steelcase-Health casegoods, all standard vertical surface textiles (except Cogent™: Geode and Sprite) and the following seating textiles: Buzz2, Chairmat; Cogent: Connect, and Cogent: Trails; Cricket, Crosswalk, Hampstead, Playground, Regis2, Stand In, Seating vinyl, Connect 3D, 3D Knit, Jersey® Mesh, Qivi® Net, Reply® Air Mesh, Elmorustical and Elmosoft Leather, Steelcase Leather

5 years
Bo Peep, Brisa, Cogent: Geode Seating, Cogent: Vertical, and Cogent: Tides; CuraNet®; Gaja-Cradle to Cradle CM, Jacks, Link™, Niteights, Redeem, Remix, Retrieve; Sprite, Spyder, Steelcut Trio, Turnstone Collection by Designtex®, Zoe2, glass surfaces, paint colorfastness, Steelcase Health wood finish

3 years
Vinyl wrapped surfaces and acrylic
Steelcase Limited Lifetime Warranty for Americas

WARRANTY DOES NOT APPLY TO PRODUCT FAILURE OR LOSS RESULTING FROM:

- Normal wear and tear
- Failure to apply, install or maintain products according to published Steelcase or manufacturer instructions and guidelines
- Abuse, misuse, or accident
- Alteration or modification of the product
- The substitution of any unauthorized non-Steelcase components for use in the place of Steelcase components in an integrated product solution; such substitute components include but are not limited to worksurfaces, leg supports, panels, brackets, shelves, overhead bins and other integral components.

WARRANTY DOES NOT COVER:

- Replacement parts are covered for 2 years or the balance of the original warranty, whichever is longer (excluding certified refurbished products).
- Products considered by Steelcase to be consumables (e.g., batteries, bulbs/lamps, except projector lamps offer 6 months coverage)
- Variations occurring in surface materials (e.g., matching grains, textures and colors across dissimilar substrates and lots).
- Select Surfaces, Steelcase Health Graded-In and Custom Surfaces are not covered, except as warranted by the original supplier, for material properties including, but not limited to, quality, colorfastness, shade variations, puddling, wrinkling or abrasions
- Warranty excludes Custom Surfaces that COM testing has deemed to be unsuitable for upholstery on our products.
- Steelcase textiles purchased through the cut yardage program are warranted for defects in manufacturing of the material.
- Coalesse® has an independent warranty.

WARRANTY PROVIDES EXCLUSIVE REMEDIES:

Pursuant to this limited warranty, if a product fails under ordinary use as a result of a defect in materials or workmanship, Steelcase will (i) repair or, at Steelcase's option, replace the affected product at no charge, with a new or refurbished product of comparable function, performance and quality or (ii) refund the purchase price for the affected product if repair or replacement is not commercially practicable or cannot be timely made.

- A product “defect” means an inadequacy in the materials or workmanship of the product that (i) existed at the time when you received the product from Steelcase or a Steelcase Authorized Reseller and (ii) causes a failure of the product to perform under ordinary use in accordance with the materials and documentation accompanying the product.
- An “ordinary use” means use of the product (i) in conformance with all applicable local, state or federal laws, codes and regulations (including without limitation building and/or electrical codes) and (ii) in accordance with manufacturer recommendations and/or instructions in the materials and documentation accompanying the product.
- A “Steelcase Authorized Reseller” means any dealer that (i) is legally permitted to conduct business in the jurisdiction where the product is sold, (ii) is duly authorized by Steelcase to sell the product, and (iii) sells the product new and in its original packaging.

THIS LIMITED WARRANTY IS THE SOLE REMEDY FOR PRODUCT DEFECT AND NO OTHER EXPRESS OR IMPLIED WARRANTY IS PROVIDED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. STEELCASE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE OR INCIDENTAL DAMAGES.

Warranty is non-transferable and valid only for the original purchaser acquiring a product from Steelcase or a Steelcase Authorized Reseller for the purchaser’s own use and not for resale, remarketing or distribution.
For more information or a consultation, please contact the Red Thread team:

**FURNITURE**

Debbie Douglas  
Workplace Sales Consultant  
Red Thread  
860.291.5633  
ddouglas@red-thread.com

**TECHNOLOGY**

Tim Bycholski  
AV Technology Sales Consultant  
Red Thread  
860.291.5717  
tbycholski@red-thread.com