21st Century Classroom Initiative
LEARNING SPACES

January 2016

RED THREAD

creating an active learning community

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

CL-1 Traditional Classroom – Small
CL-2 Traditional Classroom - Tiered
CL-3 Traditional Classroom - Large
CL-4 Flipped Classroom
CL-5 LearnLab - Mobile
CL-6 LearnLab - Fixed
CL-7 Blended Library Space
CL-8 Progressive Library Lab
CL-9 Maker Space
CL-10 Simulation Lab

SHARED

SH-1 Distance Learning – Satellite Classroom
SH-2 Distance Learning – Teacher Pod
SH-3 Distance Learning – Classroom
SH-4 Distance Learning – Multipurpose
SH-5 Lecture Hall
SH-6 Auditorium
SH-7 Theater
SH-8 Commons Café
SH-9 Tech Café
SH-10 Meeting Room

CAMPUS-WIDE SYSTEMS

CW-1 Room Scheduling System
CW-2 Digital Signage | Wayfinding
CW-3 AV Monitoring System
CW-4 BlueJeans Videoconferencing
CW-5 Kaltura MediaSpace
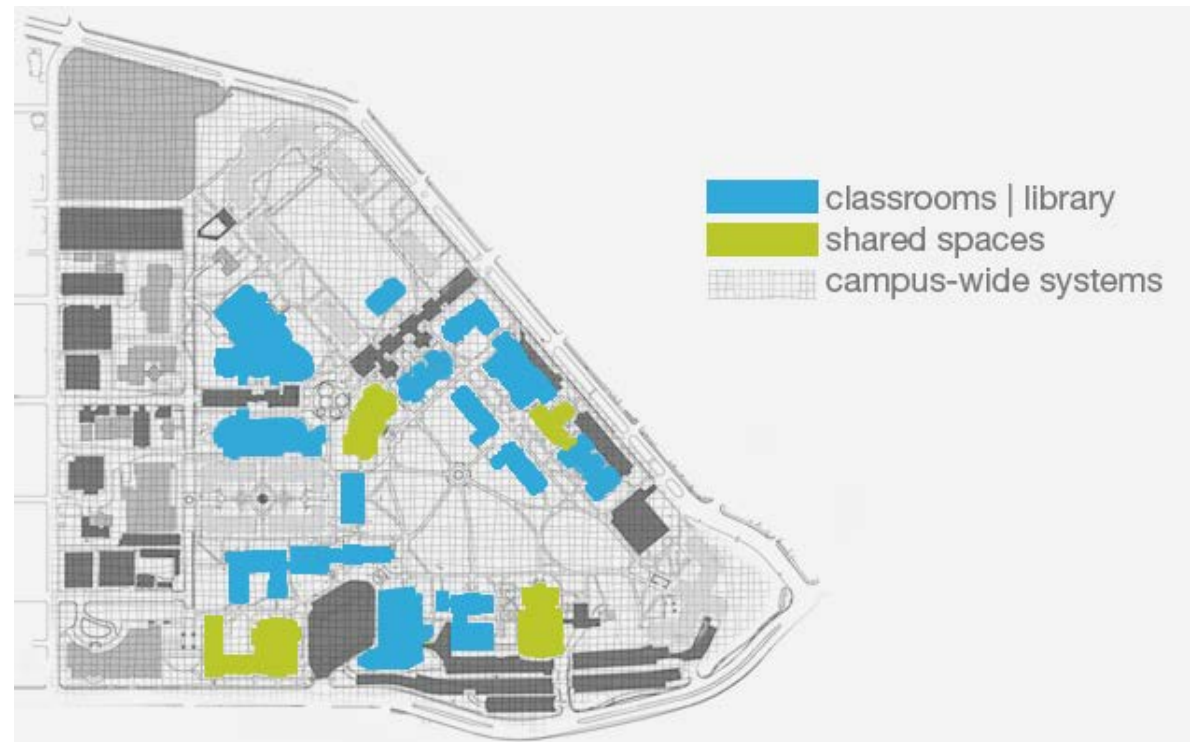
APPENDIX

A Products – Technology | Furniture | Architectural
B Budgetary Parameters
C Construction Budget Estimation Tool
D Warranty

classrooms | library
shared spaces
campus-wide systems

CLASSROOMS & LIBRARY

Traditional Classrooms
Flipped Classroom
LearnLabs
Blended Library Space
Progressive Library Lab
Maker Space
Simulation Lab

Traditional Classroom - Small | CL-1
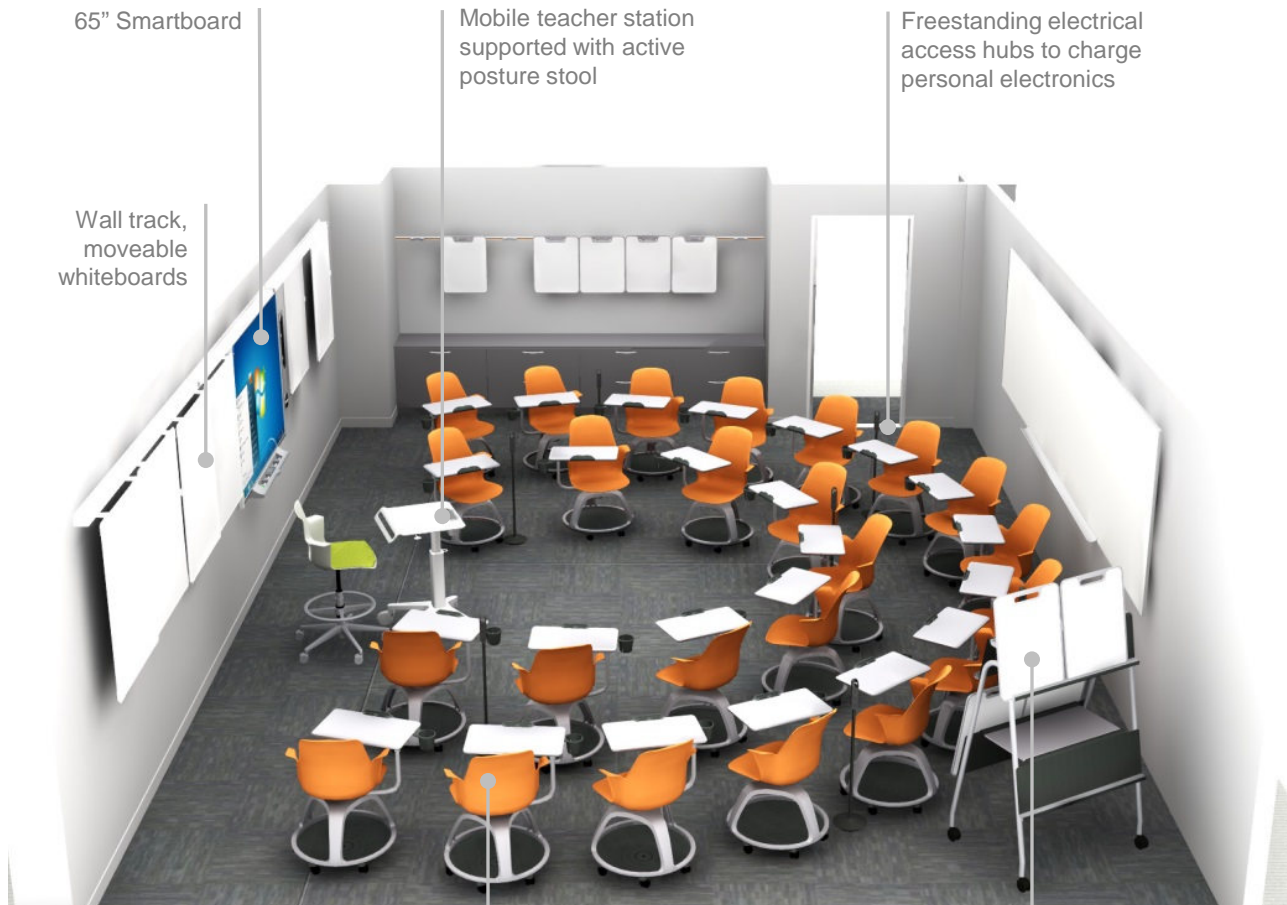
65" Smartboard

Mobile teacher station supported with active posture stool

Freestanding electrical access hubs to charge personal electronics

Wall track, moveable whiteboards

▲ Lecture/Discussion Layout

Ergonomic swivel chairs, personal table area with support for tablet devices, cup holder and personal storage below seat

Wall-mount and portable white boards on easels support content creation and review

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.
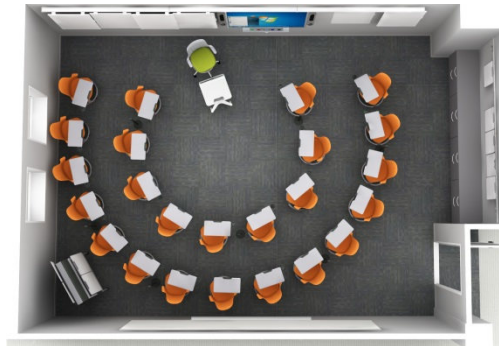
Learning/Teaching Styles:

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

▲ *Group Work Layout*
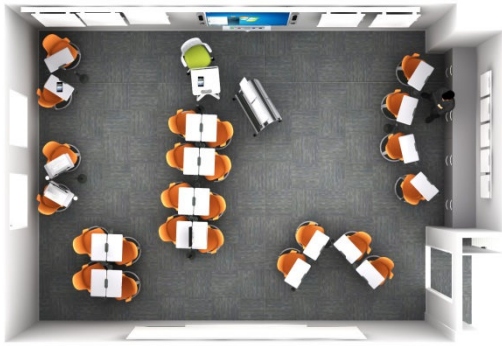
▲ *Plan View – Group Work Layout*

▲ *Plan View – Lecture/Discussion Layout*

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

Ergonomic swivel chairs support students of all sizes during long sessions

Portable whiteboards on easels support content creation and review

Adjustable height tables set at tiered heights with electrical wire ways and outlets

Single-width Instructor lectern with Integrated Crestron button controller
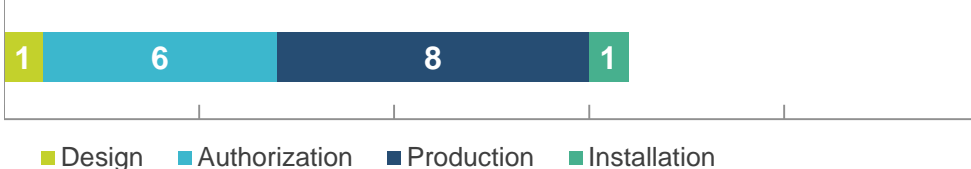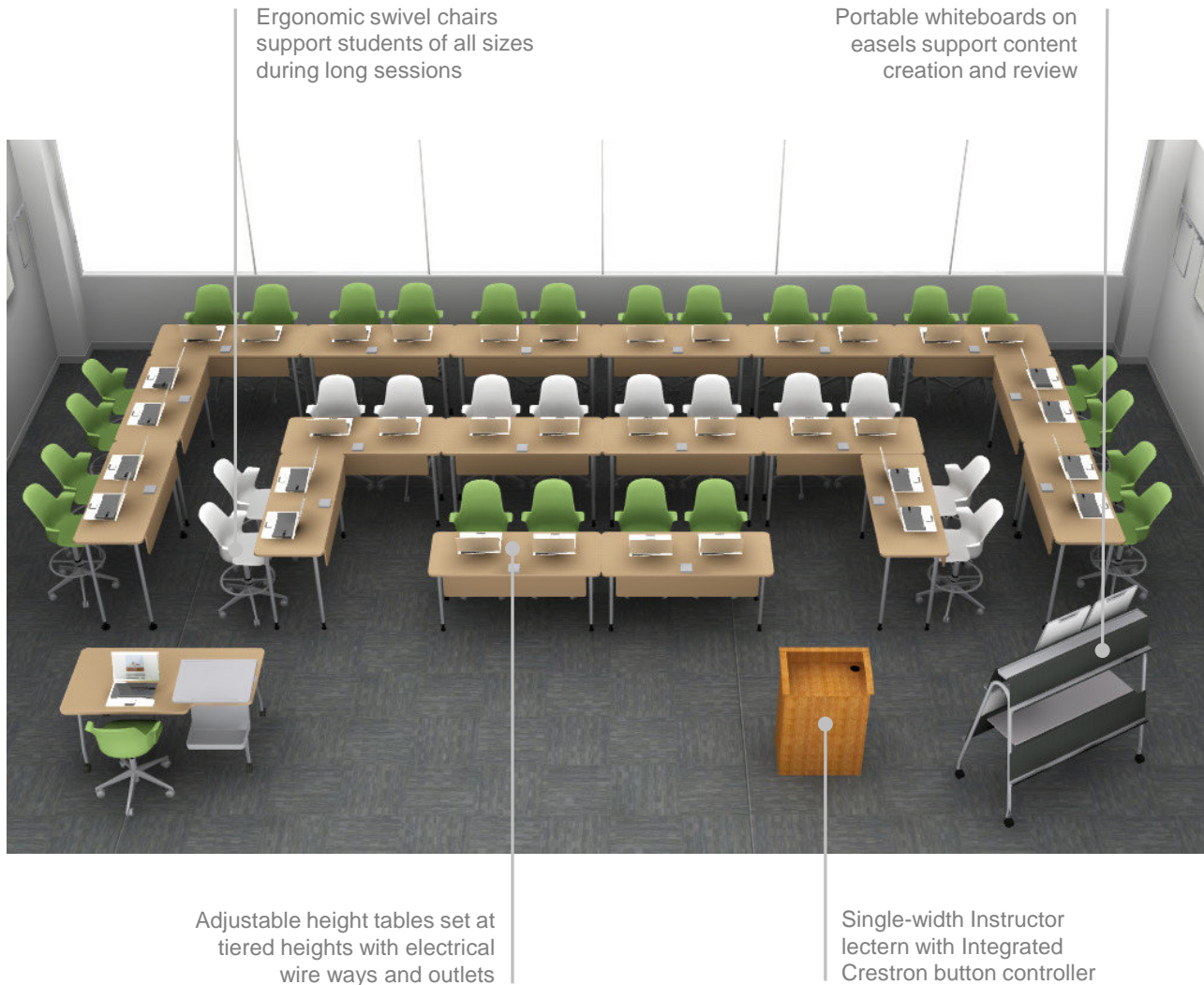
OVERVIEW

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

▲ *Plan View*

Dual 70-75" Flat Screen Displays

TECHNOLOGY PRODUCTS
(see Appendix A)

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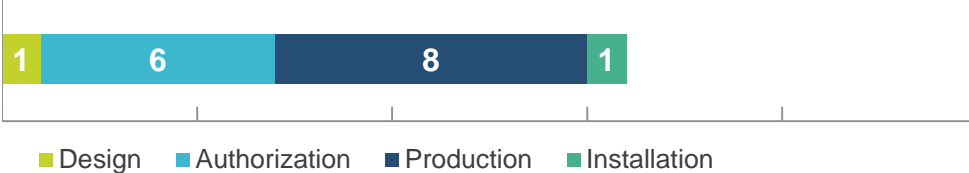
TIMELINE

Total Weeks = 16

1	6	8	1

■ Design ■ Authorization ■ Production ■ Installation

Wall-mount and portable whiteboards on easels support content creation and review

Lectern, computers, document camera, rack and button controller

Ceiling-mounted projector and 130" motorized screen

Mobile instructor desk with document camera and active posture stool

▲ *Lecture layout*

Ergonomic swivel chairs offer personal storage below the seat

Rolling chevron-shaped tables which gang together, support personal whiteboard use

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
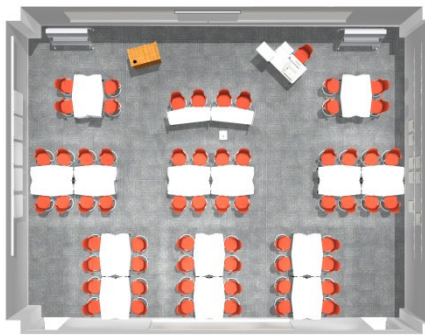
▲ *Group Work Layout – Floor Plan*
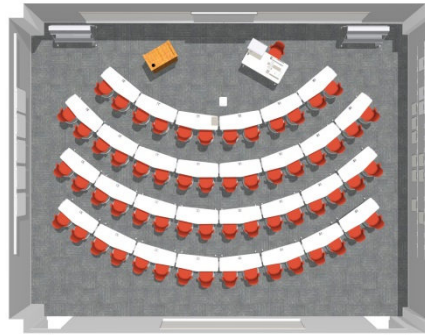
▲ *Lecture Layout – Floor Plan*

▲ *Group Work Layout – Front View*

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

TIMELINE

Total Weeks = 16

1	6	8	1

■ Design ■ Authorization ■ Production ■ Installation

Flipped Classroom | CL-4

Movable dividers for individual critical thinking sessions with minimal distractions

Wall mount and desk mount whiteboards support content creation and discussion

Thread, work surface height electrical outlets

Mobile teacher desk with active posture stool

Swivel chairs at height-adjustable tables support ergonomics

Rolling chevron-shaped tables gang together with personal whiteboards & in-table material storage

Comfortable lounge furniture encourages informal interactive discussion

Dual 70-75" flat screen display

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

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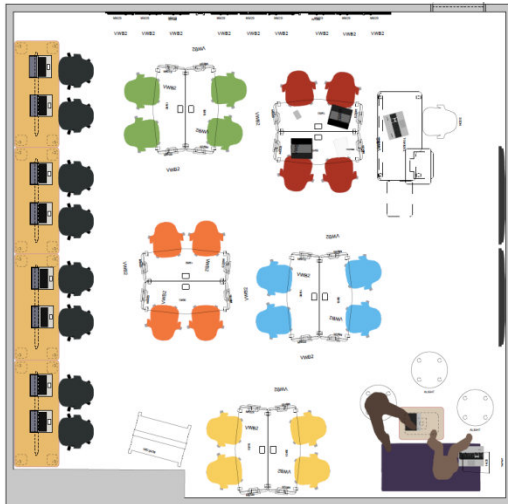
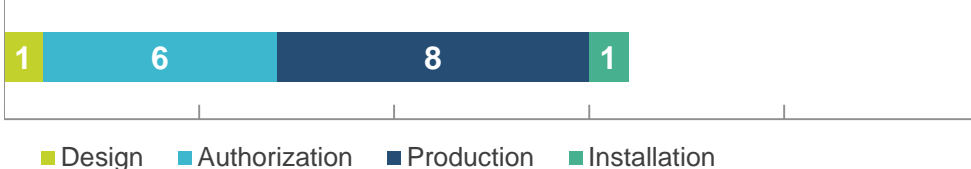▲ *Thread Power Distribution Solution*

▲ *Critical Thinking Zone*

▲ *Collaborative Small Team Zone*

▲ *Collaborative Lounge Zone*

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

Whiteboards for content creation

Locking storage units for materials

70-75" flat screen

Mobile teacher lectern with active posture seating

media:scape mobile with 42" displays for content sharing

Ergonomic height-adjustable swivel chairs support students of all sizes during long sessions

Adjustable-height tables set at tiered heights for flexibility

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
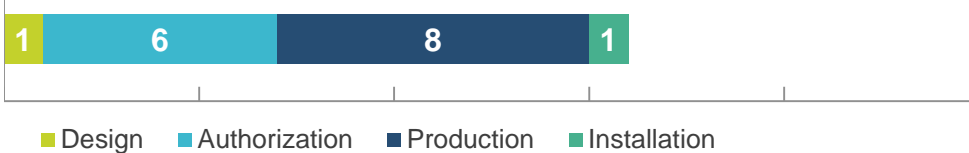- Learning Communities
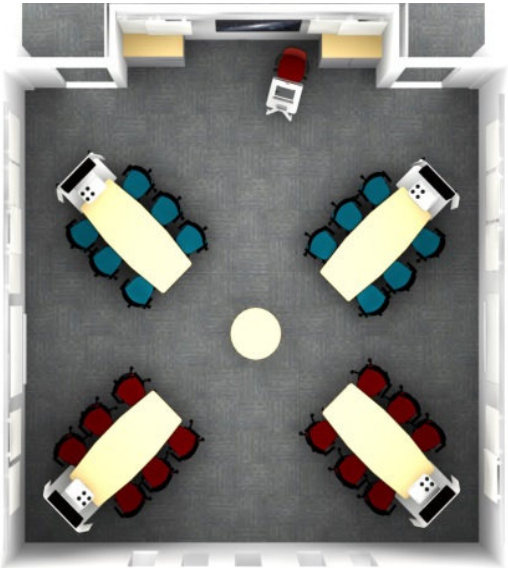
▲ *Plan View*

▲ *View to front display*

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

Whiteboards for content creation and review

Locking storage units for materials

70-75" flat screen

Mobile teacher lectern with active posture seating

media:scape with 42" displays for content sharing

Ergonomic height-adjustable swivel chairs support students of all sizes during long sessions

media:scape D-shaped tables at stool height.

*Note: tables can be specified at seated or standing height

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
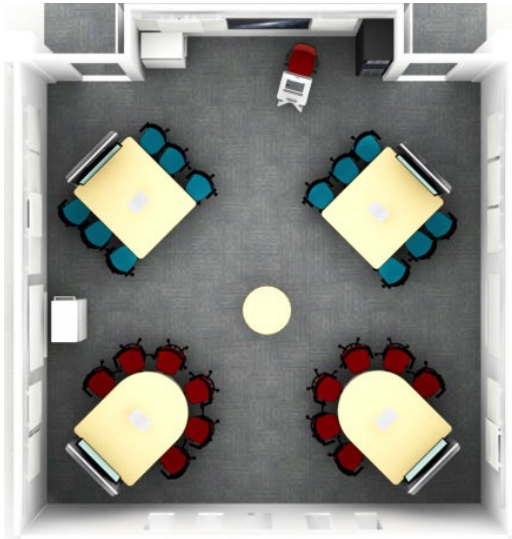
▲ *Plan View*

▲ *View to front of display*

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

1	6	8	1

■ Design   ■ Authorization   ■ Production   ■ Installation

Blended Library Space | CL-7

Group Study Lounge

Independent Desking Zone

Independent Study Lounge

Huddle Zone With 32" flat screen displays

Privacy Wall enclave, standing height media:scape, with 42" display

Teacher Zone. Mobile desk, 84" Interactive Display

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.
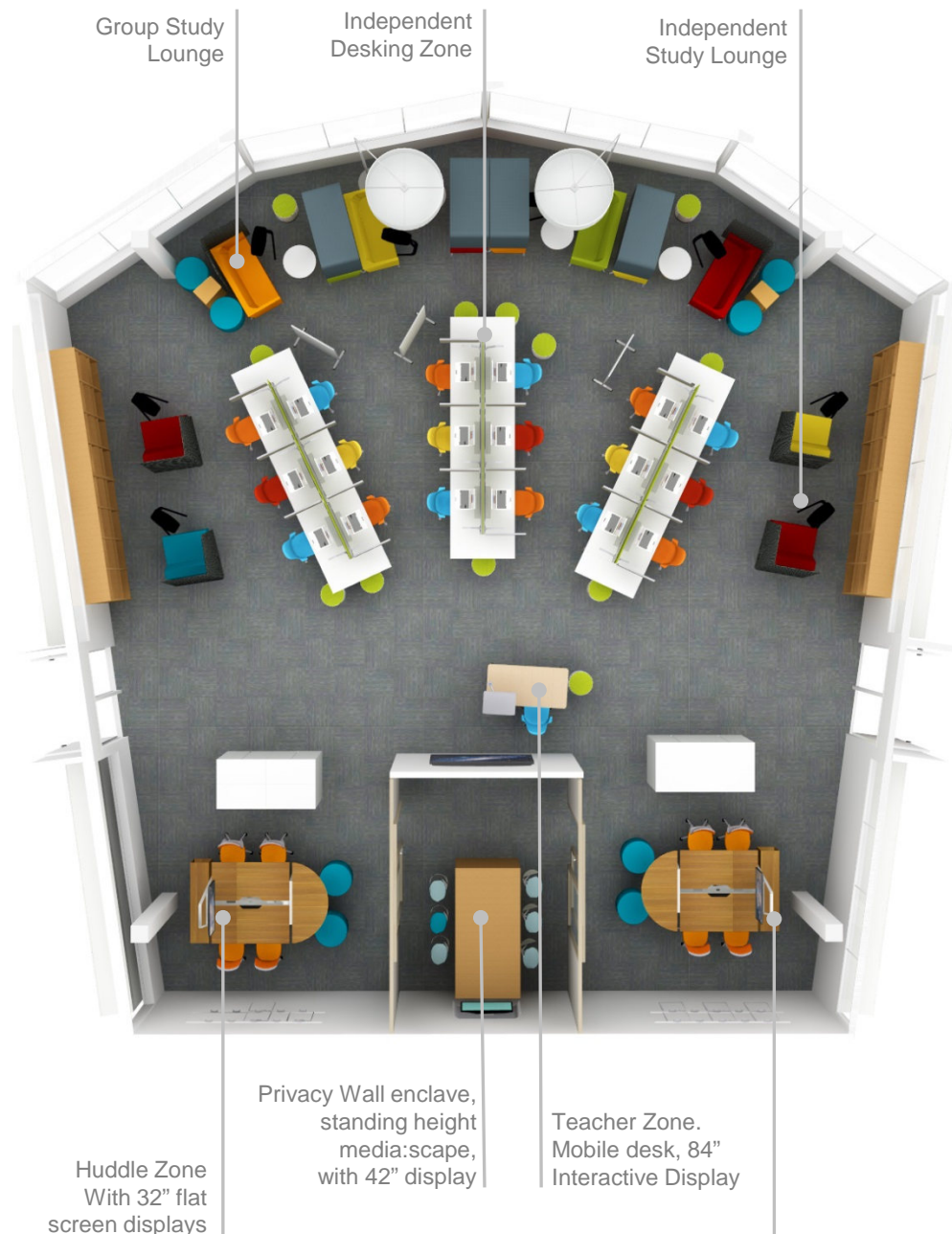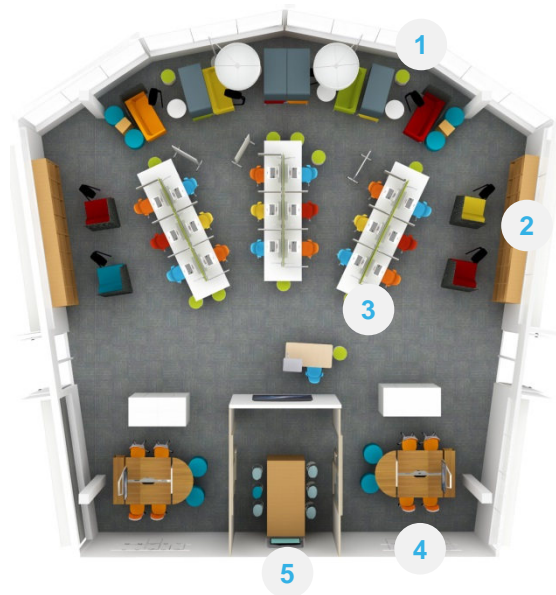
▲ *Plan View*

1   *Group Study Lounge*

2   *Independent Study Lounge*

3   *Independent Desking Zone (6-pack)*

4   *Huddle Zone*
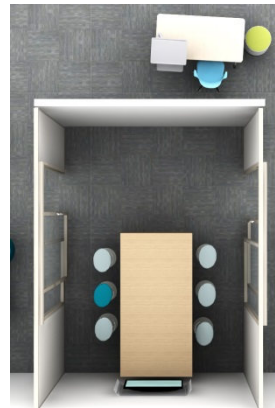
5 *Privacy Enclave | Teacher Zone*

TIMELINE

Total Weeks = 16

1	6	8	1

■ Design ■ Authorization ■ Production ■ Installation

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

Small group booth zone 23" displays

VIA lounge with dual 48" flat screen, lounge height media:scape

Small group quiet cul-du-sac

Private distance learning zone, 23" display

TeamStudio zone with dual 60-65" and single 42" displays

Projection connected to Team Studio to share content with large groups

Small group lounge collaboration zone

Independent benching work area

Independent Brody study lounge

Independent sit-to-stand work area
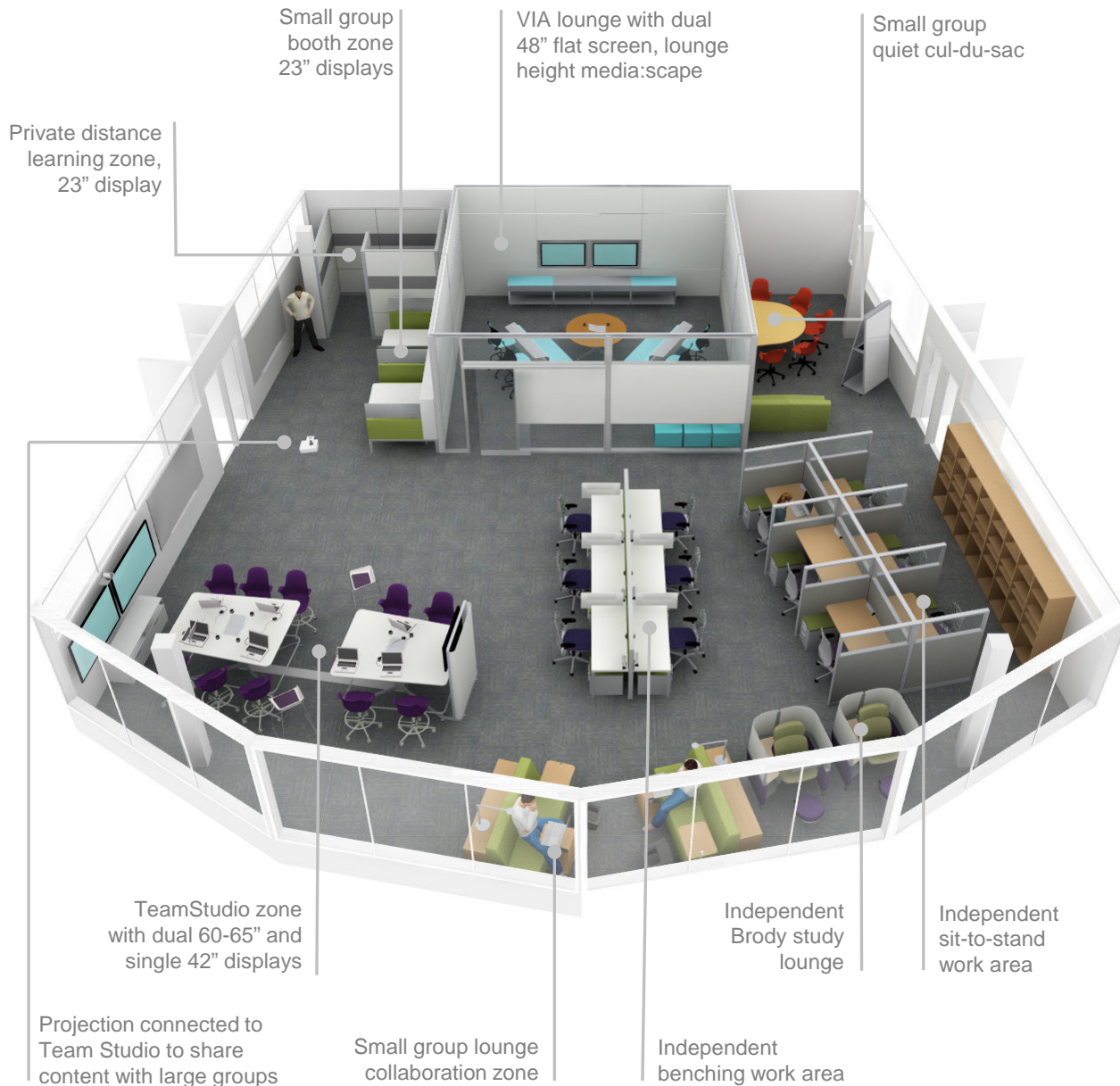
OVERVIEW

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

The progressive computer lab represents many settings of today's transformed library spaces.

▲ *Plan View*
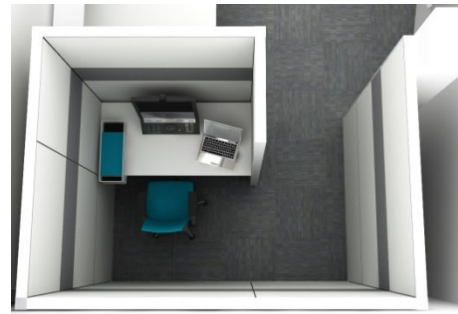
1 *Distance Learning Private Space* **2** *Small Group Zone*

3 *V.I.A. Lounge*
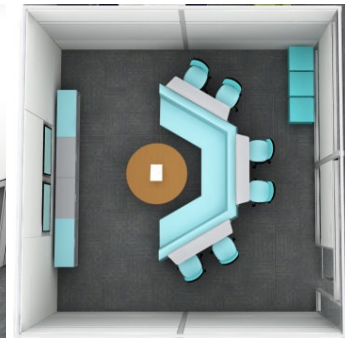
4 *Quiet Cul-de-sac* **5** *Sit-To-Stand 6-pack Work Pods* **6** *Desking 6-pack*
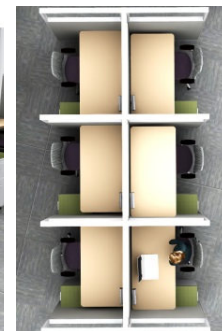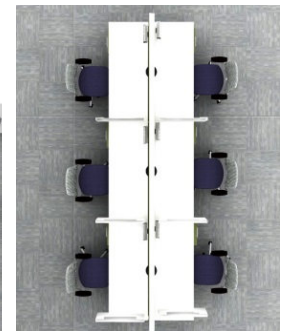
It is important to place group study lounge or cul-du-sac spaces adjacent to meeting rooms to support break out group work.

7 *TeamStudio*

8 *Group Study Lounge*

9 *Brody Study Lounge*

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

1	6	8	2

■ Design   ■ Authorization   ■ Production   ■ Installation

MENU   www.red-thread.com

Maker Space | CL-9

Wall-mounted or table-attached whiteboards support story boarding

Rolling whiteboard supports group discussions

media:scape mobile enables content sharing

Rolling storage for easy access to materials

Large and height-adjustable work surfaces

Height-adjustable swivel seating supports all sizes of students for long sessions

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
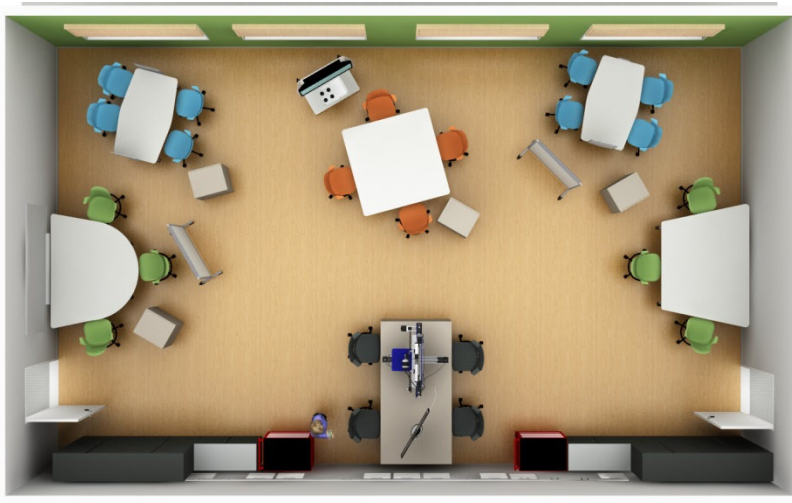
▲ Plan view

Large amounts of storage to hold a variety of materials typically in stacked totes. Tool chests on wheels for use around room.

3D printer shown on large table as example of types of project work.

▲ Detail view

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

TIMELINE

Total Weeks = 16

1	6	8	1

■ Design   ■ Authorization   ■ Production   ■ Installation

Simulation Lab | CL-10

Control booth technician has visual line of sight of simulation while monitoring recordings

Ceiling camera & microphones (not visible)

Wall-mount camera (not visible)

Display to monitor recording

Microphone/headset allows technician to communicate with students during simulation

Touch control system with customized user interface

Video camera control stick

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
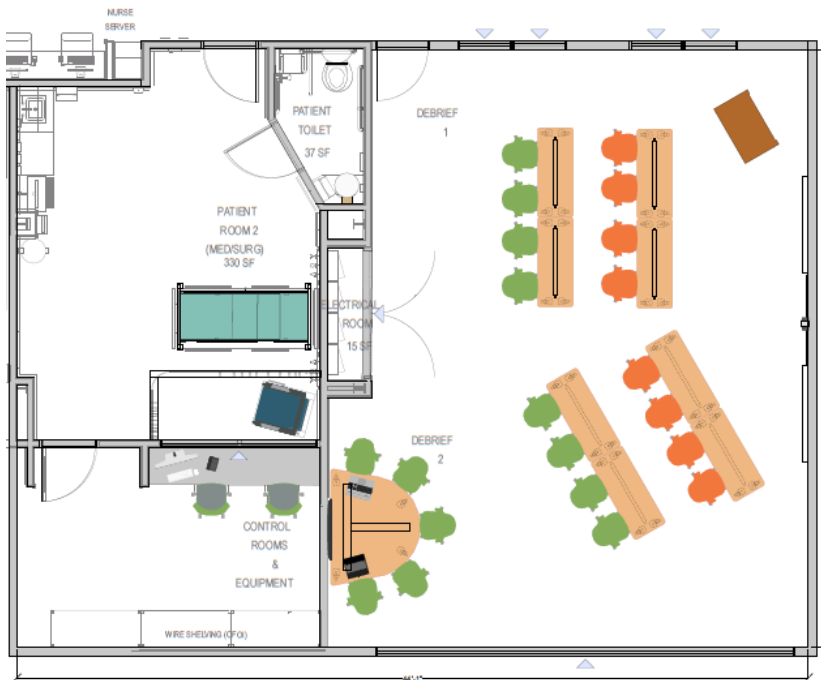
▲ *Plan View*

▲ *Instructional Classroom/ Large Debriefing*

▲ *Intimate Debriefing*

TIMELINE

Total Weeks = 18

| 2 | 6 | 8 | 2 |

■ Design ■ Authorization ■ Production ■ Installation

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

SHARED

Distance Learning
Lecture Hall
Auditorium
Theater
Café Commons
Tech Café
Meeting Room

Distance Learning – Satellite Classroom | SH-1

Demountable wall enclave (Privacy Wall)

Room scheduling device

Wall-hung and integrated marker boards

Dual 32" displays

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

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

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

▲ *Plan View*

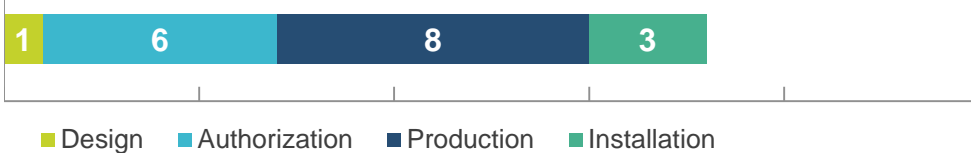## TECHNOLOGY PRODUCTS
(see Appendix A)

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

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

▲ *Plan View*

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

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

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

▲ Basic Alternative:
   Simple table, computer w/built-in camera, &
   clamp-on electric

▲ 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)

AV Technology :	$4,500.00
Furniture :	$13,000.00
* Total Budget Pricing:	$17,500.00

Basic Alternative:

AV Technology- Basic:	$1,200.00
Furniture – Basic:	$2,500.00
* Total Budget Pricing:	$3,700.00

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

TIMELINE

Total Weeks = 16

1	6	8	1

■ Design   ■ Authorization   ■ Production   ■ Installation
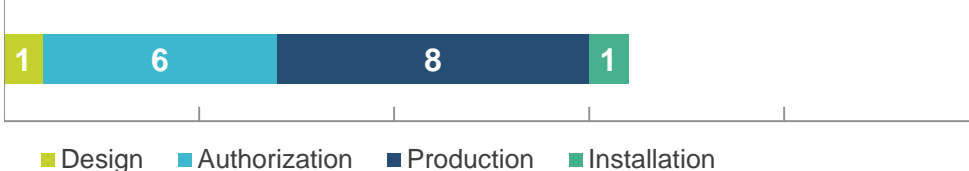
Distance Learning Classroom | SH-3

70" flat screen display

LCD projector and motorized screen

70" flat screen display

Projection system

70" flat screen display confidence monitor

High resolution precision cameras (instructor and student)

Fixed curved tables with electric outlets at the worksurface

Ergonomic height-adjustable loose swivel chairs support students during long sessions

▲ *Plan view – straight layout*
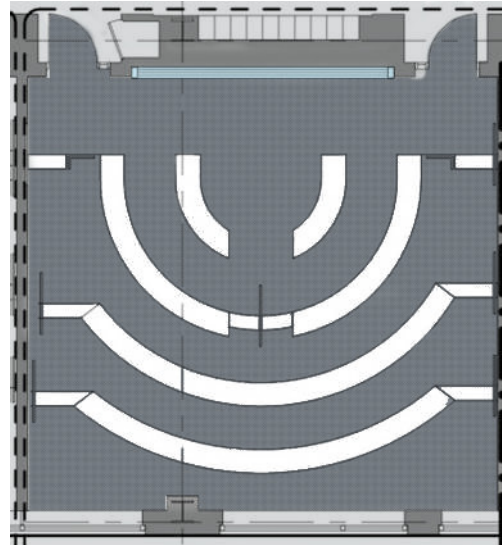
▲ *Plan view – curved layout*

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
Video Conferencing:	Codec
	(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)

TIMELINE

Total Weeks = 18

1	6	8	3

■ Design   ■ Authorization   ■ Production   ■ Installation

MENU   www.red-thread.com

Distance Learning – Multipurpose | SH-4
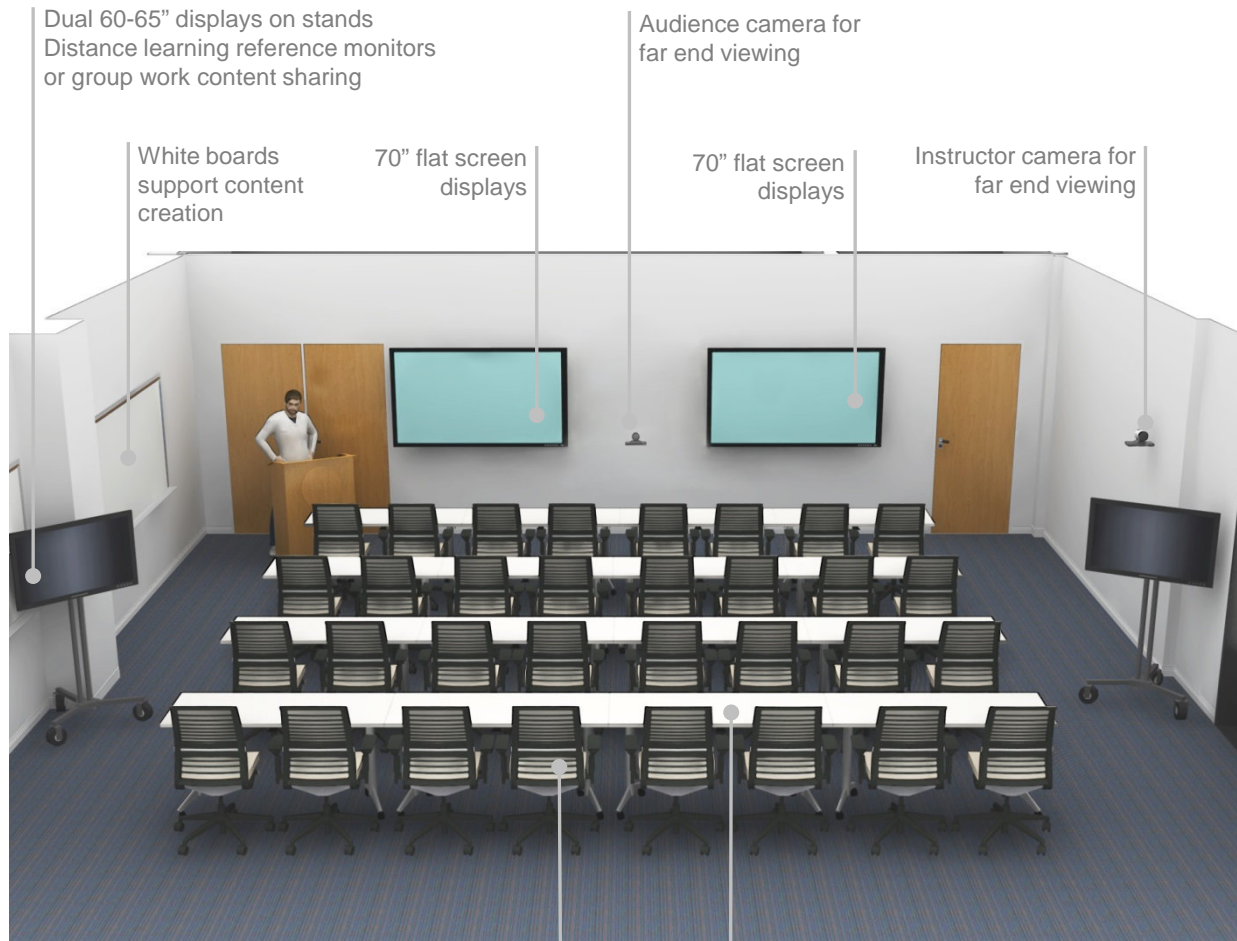
Dual 60-65" displays on stands
Distance learning reference monitors
or group work content sharing

Audience camera for
far end viewing

White boards
support content
creation

70" flat screen
displays

70" flat screen
displays

Instructor camera for
far end viewing

Distance Learning –Formal Presentation Layout

Ergonomic height-adjustable
swivel chairs supporting students
of all sizes during long sessions

Mobile flip-folding tables and
stacking chairs can be stored in
adjacent space when not in use

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
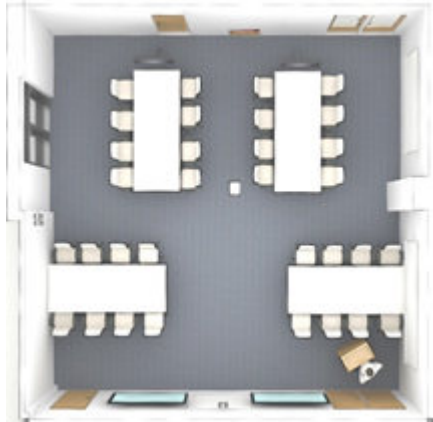
▲ *Team Collaboration*
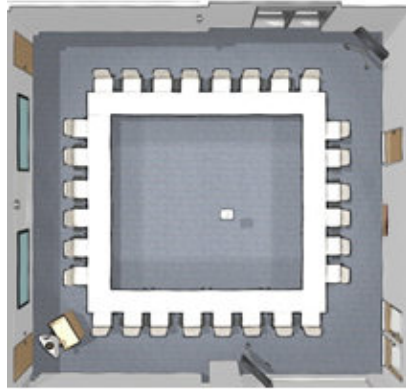
▲ *Conference Discussion*

▲ *Formal Presentation*

▲ *Distance Learning*

Dual 70" displays for near and far end viewing

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

TIMELINE

Total Weeks = 20

3	6	8	3

■ Design ■ Authorization ■ Production ■ Installation

Lecture Hall | SH-5

70-75" display

Ceiling-mounted projection system (not shown)

Recessed motorized projection screen

70-75" display

Fixed, curved lecture tables

Swing-Away fixed seating

Custom lectern houses computers, gooseneck microphone, control system and rack components

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:
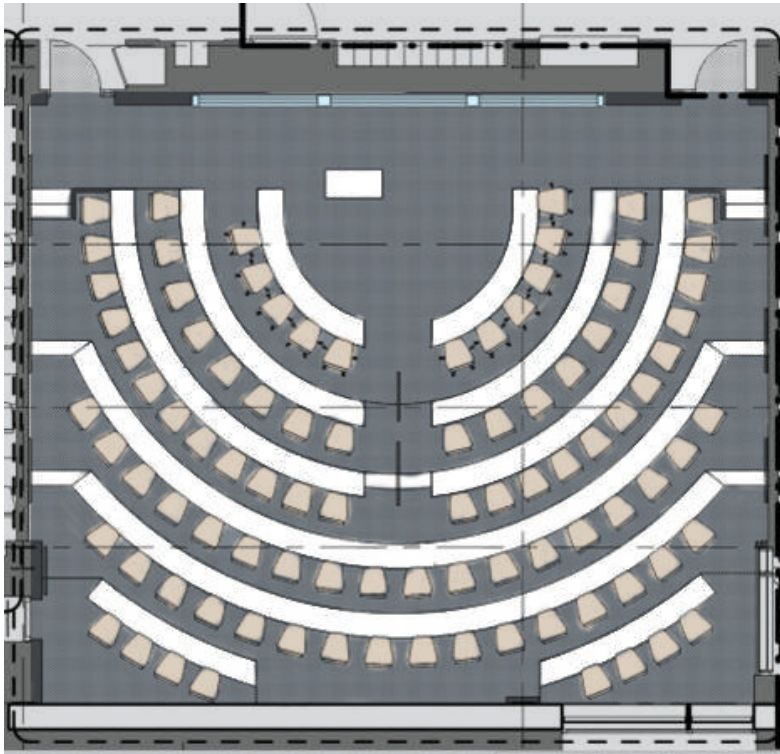
- Active Learning
- Collaborative Learning

▲ *Plan View*

TIMELINE

Total Weeks = 18

2	6	8	2

■ Design ■ Authorization ■ Production ■ Installation

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

MENU ↱ www.red-thread.com

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 reclinable seating

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
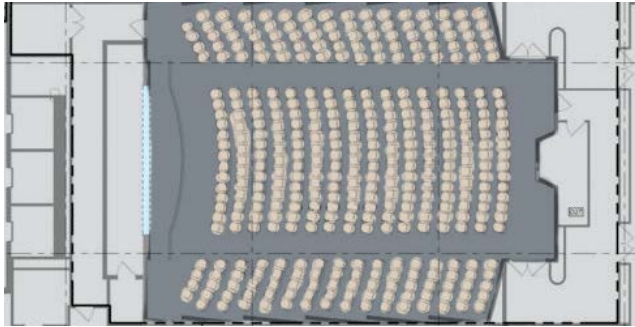
▲ Plan View

▲ Seating

▲ Plan View

TIMELINE

Total Weeks = 24

3	6	12	3
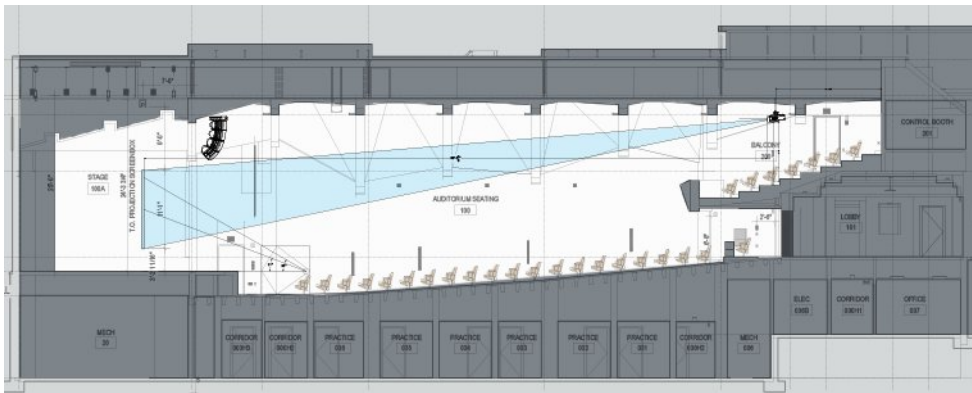
■ Design ■ Authorization ■ Production ■ Installation

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

Surround-sound system

High performance13k lumen projection system and tracking camera (not shown)

20 foot diagonal motorized screen
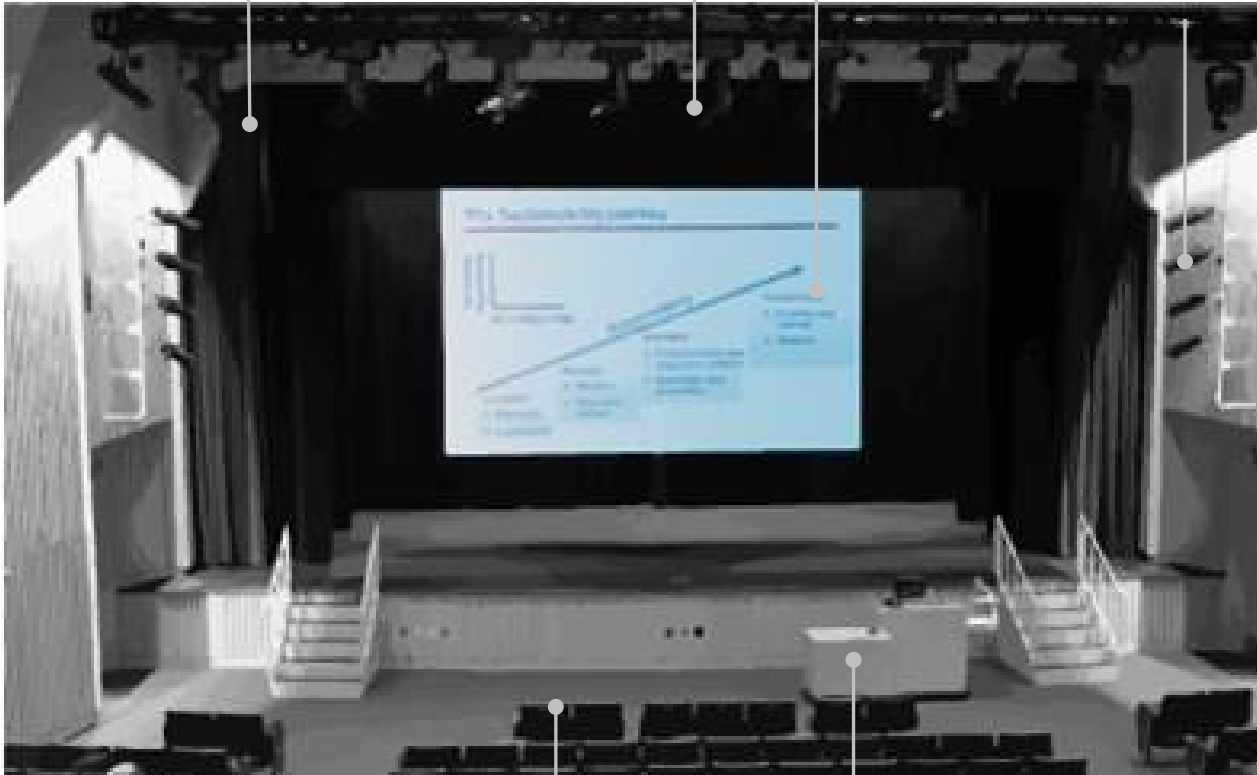
Fixed seating is partially reclinable seating

Custom movable lectern to house rack, microphones and control system

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
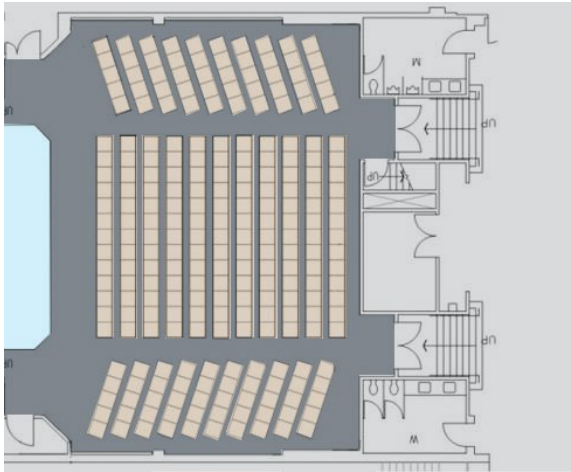
▲ *Plan view*

▲ *Seating*

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

TIMELINE

Total Weeks = 24

3	6	12	3

■ Design ■ Authorization ■ Production ■ Installation

Lectern for large meetings and presentations (tracking camera not shown)

(4) 90" display video wall

Booths with connect and share monitors

Movable seating, ganging tables and rolling white boards for collaboration and group work.

Semi private collaborative area with post and beam, lounge seating and electrical at tables

55" display at columns

180" projection screen

55" display at columns

90" display

Bistro seating and standing height Charge Bar at window walls. Comfortable place for singles to "be alone in a group"

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 a places to charge personal devises. 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 column, 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

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▲ *Plan View*

▲ *Standing /Stool-Height Area*
  Booth with auto/on 23" displays for laptop/table connection

▲ *Large Presentation View with Projection Screen, Video Wall*

▲ Informal collaboration; lounge to stool height postures

▲ Group Work, large tables and rolling whiteboards

TIMELINE

Total Weeks = 19

2	6	8	3

■ Design ■ Authorization ■ Production ■ Installation

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

FURNITURE PRODUCTS
(see Appendix A)

Seating:	Shortcut, Move, Scoop, Sorrel, Bix
	National Fringe Lounge
**Tables	Desks:**	Campfire Big Table, Groupwork Tables

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

AV Technology:	$284,000.00
Acoustics:	$36,300.00
Lighting:	$161,800.00
Furniture:	$152,700.00
* Total Budget Pricing:	$634,800.00

* Budget does not include cable tuners , digital signage or construction costs. See Appendix C

Tech Café | SH-9

55" Display
65" Display
55" Display

Support spaces adjacent for storage and work areas

Charge Bar for standing height collaboration

Small group booth lounge

Tech Bar destination supports technology questions and device repairs

Semi-private lounge areas for collaboration or "being alone in a group"

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

▲ *Plan View*

▲ *Lounge Area and Tech Bar*

▲ *View of Lounge Area*

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

TIMELINE

Total Weeks = 17

1	6	8	2

■ Design ■ Authorization ■ Production ■ Installation

MENU ⤵ www.red-thread.com

65" Flat screen display

FlexFrame wall system, supports flat screens, codecs, storage, shelves and whiteboards

Cardioid boundary flush mount microphones (not shown)

Task seating, with the latest technology and ergonomics

Wood conferencing table with recessed cable management and power/cable access in the table leg

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.

Not Shown- *wireless touch panel, ceiling speakers and optional videoconferencing*

▲ *Plan View*

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

TIMELINE

Total Weeks = 17

1	6	8	2

■ Design   ■ Authorization   ■ Production   ■ Installation
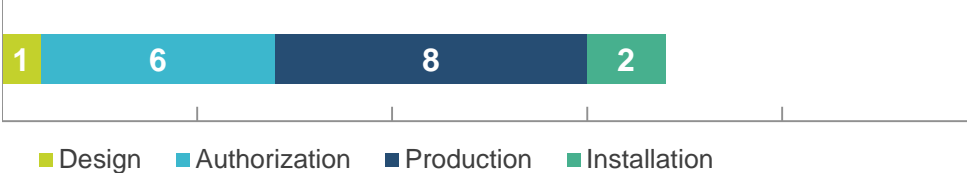
CAMPUS-WIDE SYSTEMS

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

Room Scheduling System | CW-1

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
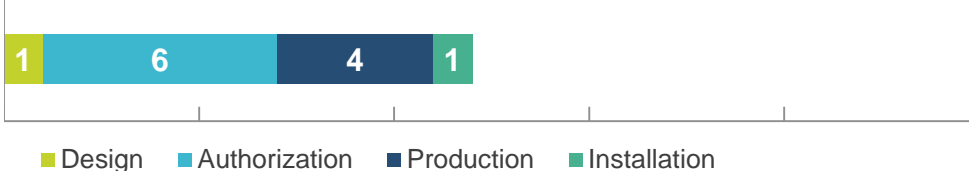
Digital Signage / Wayfinding | CW-2

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.

TIMELINE

Total Weeks = 12

1	6	4	1

■ Design ■ Authorization ■ Production ■ Installation

AV Monitoring System | CW-3

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 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.

TIMELINE

Total Weeks = 12

1	6	4	1

■ Design ■ Authorization ■ Production ■ Installation

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** today to get started!
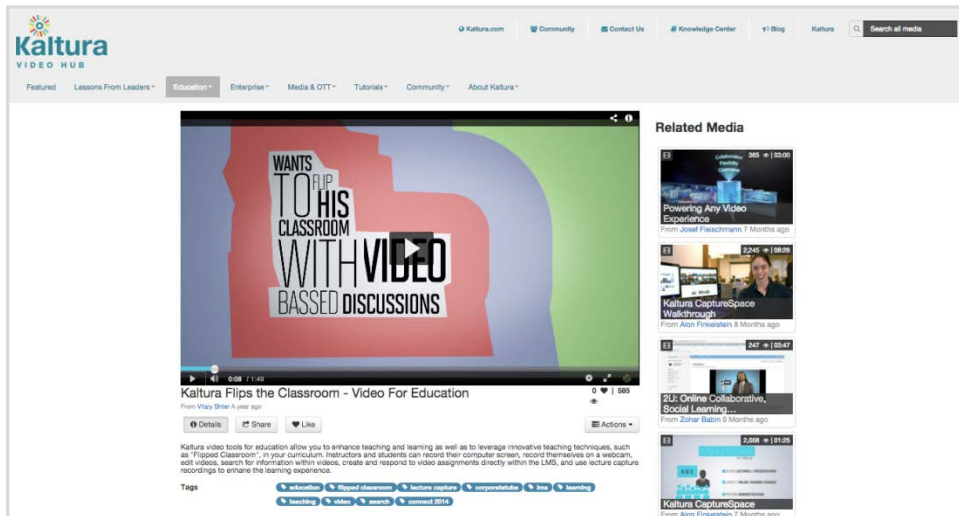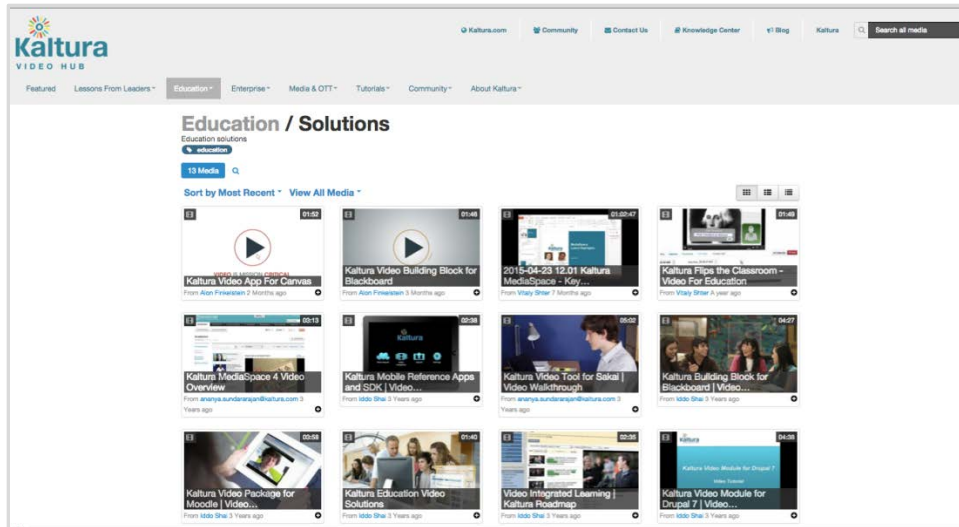
OVERVIEW

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

Display

23" Flat Display by Sharp/Samsung/ NEC		**32" Flat Display** by Sharp/Samsung/ NEC	**42" Flat Display** by Sharp/Samsung/ NEC
60-65" Flat Display by Sharp/Samsung/ NEC		**70-75" Flat Display** by Sharp/Samsung/ NEC	**13K Lumen Projector** by Panasonic
LCD Projector by NEC/Epson		**Motorized Projection Screen** by Da-Lite	**Projection Screen** by Draper/Da-Lite
84" Interactive Display by SMART			

Control Systems

	Wall Mount Controller by Extron		**Button Controller** by Crestron		**Lectern Mount Wireless 8" Touch Panel** by Crestron
	Wall-Mount/Wireless 8" Touch Panel by Crestron		**Wall/Lectern 7" Touch Control** by Crestron		**Wall/Lectern 10" Touch Control** by Crestron
	RoomWizard by Steelcase				

Video Systems and Video Conferencing

	Codec and 12X Camera by Cisco		**Digital Signage Server, Players and Receivers**		**Document Camera** by Elmo/Epson
	Pan/Tilt/Zoom Tracking Camera by Vaddio		**SMART Podium** by SMART Technologies		**Step View Mat** by Vaddio

Video Systems and Video Conferencing (continued)

	USB Camera by Panasonic, Cisco, Vaddio		**Video Lighting** by Brightlines

Video Conferencing Lighting by Lithonia Lighting

Sound Systems

6.5" White In-Ceiling Speakers by Crestron /JBL	**Wireless Boundary Transmitter, Cardioido** by Shure	**DSP Sound Processing** by Biamp
QT Pro Sound Masking by Steelcase	**Tabletop USB Speakerphone** by ClearOne	**Ceiling Microphones** by Clockaudio
Assistive Listening by Listen Technologies	**Gooseneck Microphone** by Clock Audio	**Wireless Lapel Microphone** by Shure
Microphone/ Headset by beyerdynamic	**Array Speaker System** by JBL	**Wireless Intercom System** by ClearCom
Table Microphones by Clockaudio	**Cardiod Boundary Microphones** By Shure	

Other

Lectern
by Marshall Furniture

Cable Cubby 202
by Extron

Cable Cubby 500
by Extron
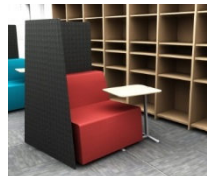
Seating

	Alight Bench by Turnstone		**Alight Ottoman** by Turnstone		**Amia** by Steelcase
	Bivi Rumble Seat and Hoodie by Turnstone *$6.600 product only*		**Bix** by Coalesse		**Bix Sectional with powered tables** by Coalesse
	Brody by Steelcase *$2,900 product only*		**Buoy** by Turnstone		**Cachet** by Steelcase
	Campfire Big Lounge by Turnstone		**Campfire Half Lounge** by Turnstone		**Cobi** by Steelcase
	Cobi by Steelcase		**Enea Stool** by Coalesse		**Focus Cachet Swing-Away** by American Seating *(with fixed table)*
	Fringe by National		**Gesture** by Steelcase		**Jenny** by Steelcase

Seating

	Jenny by Steelcase *(round back)*		**Move** by Steelcase		**Node** by Steelcase
	Regard by Steelcase *$10,700 with monitor, product only*		**Scoop** by Turnstone		**Shortcut** by Turnstone
	Sorrel by Steelcase		**Think** by Steelcase		

Appendix A | Products – Furniture

Tables | Desks

	Answer by Steelcase *(with FrameOne leg)* *$7,600;6-pack, product only*		**Answer** by Steelcase *(with Series5 Height-Adjustable Table)*		**Bivi Workstation** by Turnstone *$12,900 product only, includes flat screen*
	Campfire Big Table by Turnstone		**Campfire Paper Table** by Turnstone		**Campfire Personal Table** by Turnstone *$3100 product only*
	Campfire Skate Table by Turnstone *$4100 product only*		**Convene** by Steelcase		**FrameOne Benching** by Steelcase *$12,800 6-pack, product only*
	Focus Fixed Lecture Tables by American Seating *(straight, curved)*		**Groupwork** by Steelcase		**Groupwork** by Steelcase
	media:scape table by Steelcase *(standing height w/clamp-on electric*		**Pocket** by Steelcase		**Series 5 Height-Adjustable Table** by Steelcase
	Simple Table by Turnstone		**Verb Chevron Table** by Steelcase		**Verb Instructor Station** by Steelcase

Tables | Desks

	Verb Table by Steelcase *(standard legs)*		**Verb Table** by Steelcase *(rectangle shape with Sit-to-Stand legs)*		**Verb Table Overview of Shapes** by Steelcase
	Waveworks Flip-Top Table by National				

Appendix A | Products – Furniture

Interactive

	media:scape by Steelcase *(D-shaped tables, standing height shown, seated available.*		**media:scape kiosk** by Steelcase *(stnading height shown, seated height available)*

	media:scape lounge by Steelcase		

	media:scape mobile by Steelcase *(height adjustible)*		**media:scape TeamStudio** by Steelcase *$39,000 furniture, $7,600 displays, product only*

	Distance Learning Private Space *$9,500 with monitor, camera, microphone, product only*

Storage

	Campfire Mobile Cabinet by Turnstone		**Currency Workwall** by Steelcase

	Exponents Mobile Cart by Coalesse

	TS Series Mobile Pedestal by Steelcase *(cushion top)*		**Universal Storage** by Steelcase

	Universal Mobile Pedestal by Steelcase *(cushion top)*

	Tool Chest by Craftsman

Appendix A | Products – Furniture

Whiteboards

	Edge Series Whiteboard by Steelcase *(Low gloss can be used for projection surface)*		**Huddle Board** by Steelcase		**Groupwork Screen Mobile Whiteboard** by Steelcase
	Verb Whiteboard by Steelcase		**Verb Whiteboard Easel** by Steelcase		**Groupwork Mobile Easel** By Steelcase

Other

	Campfire Big Lamp by Turnstone		**Campfire Screen** by Turnstone *(light weight mesh)*		**Divisio Screen** by Steelcase *(clamp on)*
	FlexFrame by Steelcase		**SOTO Launch Pad** by Steelcase		**SOTO Functional Screen** by Steelcase
	Thread by Steelcase *(under carpet tile power distribution with 6 outlet desk height hub)*		**Clamp-On Power/Data Strip** by Steelcase		

Appendix A | Products – Architectural

Demountable Walls

Privacy Wall
by Steelcase

V.I.A.
by Steelcase

Appendix B | Budgetary Parameters

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

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

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 overbed tables, 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 Stacker®, Max Stacker® 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
ēno® trim and brackets

5 years
ēno Play and ēno projector mounts

3 years
ēno technology components and accessories, ēno stylus, and ēno 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 AdjusTable 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, Chainmail; 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™, Nitelights, 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:

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RED THREAD