

Smart Classroom Standard

Standard equipment:

- Ceiling mounted Projector
- Screen
- Powered Speakers, front of room
- Document Camera
- Instructor Computer with monitor
- Control panel
- Electronic door lock
- Infrastructure:
 - Power
 - Data
 - Input
 - HDMI for laptop
 - 3.5 mm audio plug
- Whiteboards
- AV Switcher
- Networked Room Controller (NRC)

Optional equipment*:

- Instructor Workstation (desk)
- Monitor arm
- Optical disc player (Blu-Ray/DVD)
- Surround sound
- Interactive whiteboard
- Voice amplification
- Assistive listening
- Video monitors
- Video camera

Project may include*:

- Replacement furniture
- Painting
- Chair rails
- Replacing ceiling tiles
- Window coverings

* All non standard items are done based on room requirements and budget

Standard Equipment Specifications	CCSF Current Standard Product
Ceiling Projector: <ul style="list-style-type: none"> • Standard <ul style="list-style-type: none"> ○ LCD ○ Minimum input: <ul style="list-style-type: none"> ▪ HDMI x2 ▪ RJ-45 ○ Minimum lumens: 3,000 ○ Minimum resolution: WXGA ○ Wide format ○ Compatible with SP Control NRC ○ Ceiling mountable ○ 57.5" x 92" image at 12' from front of room 	Hitachi CP-WX4042WN
<ul style="list-style-type: none"> • Mid size <ul style="list-style-type: none"> ○ Meet Standard specs except as noted below ○ Minimum lumens: 5,000 	Hitachi CP-WX5505WN
<ul style="list-style-type: none"> • Large <ul style="list-style-type: none"> ○ Meet Standard specs except as noted below ○ Minimum lumens: 10,000 	Hitachi CP-WU9100B
Short throw Projector: <ul style="list-style-type: none"> • Meet Standard specs except as noted below 	Hitachi CP-AW3005
Portable Projector: <ul style="list-style-type: none"> ○ Minimum input: HDMI x2 ○ Weigh: less than 4 pounds ○ Minimum lumens: 3,000 ○ Minimum resolution: WXGA ○ Must have case 	Epson PowerLite Series 1785W WXGA 3LCD Projector
Note: <ul style="list-style-type: none"> • XGA: 1024 x 768 • UXGA: 1600 x 1200 • WXGA: 1280 x 800 • WUXGA: 1920 x 1200 	
Mount for projector: <ul style="list-style-type: none"> • Lockable • Universal (compatible with standard LCD Projector) • Adjustments available in Roll, Pitch and Yaw 	Chief RPA Elite Universal Projector Mount with Keyed Locking (A version), RPMAUW
Screen: <ul style="list-style-type: none"> • Standard: <ul style="list-style-type: none"> ○ 16:10 	Da-Lite Model B with CSR #36457

<ul style="list-style-type: none"> ○ 57.5" x 92" (H X W) ○ Manually operated ○ Controlled Screen Return 	
<ul style="list-style-type: none"> ● Mid Size: <ul style="list-style-type: none"> ○ Meet Standard specs except as noted below 	
<ul style="list-style-type: none"> ● Large: <ul style="list-style-type: none"> ○ Meet Standard specs except as noted below: <ul style="list-style-type: none"> ▪ Electric motor operated (may requires additional power) 	
<p>Speaker (front of room):</p> <ul style="list-style-type: none"> ● Powered ● Non-Amplified ● Surface mountable ● 2- way ● Min/Max 6" woofer ● Min/Max 4Ω speaker 	JBL Control 2P
<p>Document camera:</p> <ul style="list-style-type: none"> ● HDMI output ● Adjustable neck ● Microphone (built in) ● USB port (for flash drive) ● Record minimum 30 fps ● Minimum 1080p output ● Image capture ● Minimum mechanical zoom: 10X 	Lumens, Model DC192 (Ladybug)
<p>Instructor Computer:</p> <ul style="list-style-type: none"> ● Win 10 ● Intel core i7 ● Minimum 8 GB RAM ● Minimum 256 GB SSD ● Micro form factor 	The CCSF standard desktop computer (http://www.ccsf.edu/en/employee-services/technology-services2/technical-services/Computers.html)
<p>Computer monitor:</p> <ul style="list-style-type: none"> ● 24" LCD monitor ● Built in web cam ● Built in microphone ● Built in speakers ● VESA mount 	The CCSF standard desktop monitor for employees (http://www.ccsf.edu/en/employee-services/technology-services2/technical-services/Computers.html)
<p>Control panel:</p>	SP Controls Pixie Pro (PX2-MP-IR)

<ul style="list-style-type: none"> • IR control of multiple devices • Modular 	
<p>Electronic door lock:</p> <ul style="list-style-type: none"> • Compatibility with Vanderbilt system 	Schlage AD-400 with Multi-Technology reader
<p>Infrastructure:</p> <ul style="list-style-type: none"> • Power: <ul style="list-style-type: none"> ○ Quad on ceiling: <ul style="list-style-type: none"> ▪ Projector ▪ Video Transceiver ▪ NRC ▪ Spare ○ Duplex for speakers <ul style="list-style-type: none"> ▪ Ground loop isolator required ○ Duplex for Instructor's Workstation • Additional power may be required for optional/not standard equipment • Data <ul style="list-style-type: none"> ○ Quad in ceiling: <ul style="list-style-type: none"> ▪ Wifi x2 ▪ NRC ▪ Spare ○ Duplex for Instructor's Workstation 	
<p>Whiteboards:</p> <ul style="list-style-type: none"> • Non-porous surface • Porcelain/Ceramic • Magnetic 	
<p>AV Switcher:</p> <ul style="list-style-type: none"> • Minimum input <ul style="list-style-type: none"> ○ HDMI x4 ○ 3.5 mm audio jack • Minimum resolution: WXGA 	Kramer Electronics Model VP-440
<p>Networked Room Controller (NRC):</p> <ul style="list-style-type: none"> • web-enabled controller for any display device • Ports: <ul style="list-style-type: none"> ○ one bidirectional RS-232 control port ○ one infrared (IR) control port 	SP Controls PX2-NRC-1142

<ul style="list-style-type: none"> ○ four low-voltage relays for screens or lifts ○ two general purpose sense ports for security and theft detection. ● Web based configuration, control, monitoring, and management 	
<p>Instructor Workstation (desk):</p> <ul style="list-style-type: none"> ● Height adjustable ● Locking cabinet on rear 	Computer Comfort Power Lift
<p>Optical disc player (Blu-Ray):</p> <ul style="list-style-type: none"> ● Max width: 14" ● HDMI out ● Desirable: <ul style="list-style-type: none"> ○ Use (play, pause, stop, etc) without the need of remote 	Sony BDP S3700
Surround sound:	
Interactive whiteboard:	
<p>Voice amplification:</p> <ul style="list-style-type: none"> ● Installed <ul style="list-style-type: none"> ○ ● Portable <ul style="list-style-type: none"> ○ 	Lightspeed Redcat Access, Flexmike Pendant Microphone, Flexmike Cradle Charger
<p>Assistive listening:</p> <ul style="list-style-type: none"> ● 	Listen Point Sound System, Model LPT-S1-01
<p>Video monitors:</p> <ul style="list-style-type: none"> ● Flat panel 	
<p>Video camera:</p> <ul style="list-style-type: none"> ● Fixed ● Pan/Tilt/Zoom 	

Contact ITS if you're interested in purchasing any of these items.