## **Smart Classroom Standard**

Update 5 Oct 20

## Standard equipment:

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

## 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

<sup>\*</sup> All non standard items are done based on room requirements and budget

Standard Equipment Specifications	<b>CCSF Current Standard Product</b>
Ceiling Projector:	
<ul> <li>Standard</li> </ul>	
o LCD	
<ul><li>Minimum input:</li></ul>	
■ HDMI x2	
<ul><li>RJ-45 Ethernet</li></ul>	
<ul><li>RJ-45 HD BaseT</li></ul>	
<ul><li>3.5mm stereo</li></ul>	
■ RS-232	
<ul><li>Minimum output:</li></ul>	Maxell MP-WU5503 (LCD laser)
<ul><li>HDMI</li></ul>	Wide in the Woods (EED laser)
<ul><li>3.5mm stereo</li></ul>	
o Minimum lumens: 5,000	
<ul> <li>Minimum resolution: WUXGA</li> </ul>	
Lamp: laser	
Wide format     Compatible with SR Control NRC	
Compatible with SP Control NRC     Coiling mountable	
<ul><li>Ceiling mountable</li><li>57.5" x 92" image at 12' from</li></ul>	
o 57.5" x 92" image at 12' from front of room	
Mid size	
Meet Standard specs except as	Maxell CP-WX5603 (LCD laser) / Maxell MP-
noted below	WU8701W (LCD laser/ interchangeable lens)
o Minimum lumens: 6,000	The contract (and the contract of the contract
• Large	
<ul> <li>Meet Standard specs except as</li> </ul>	Marriell CD WILIOA OAD
noted below	Maxell CP-WU9101B
<ul><li>Minimum lumens: 10,000</li></ul>	
Short throw Projector:	
<ul> <li>Meet Standard specs except as noted</li> </ul>	Maxell MC-AW3506
below	
Portable Projector:	
<ul> <li>Minimum input: HDMI x2</li> </ul>	
<ul> <li>Weigh: less than 4 pounds</li> </ul>	Epson PowerLite Series 1785W WXGA 3LCD
o Minimum lumens: 3,000	Projector
Minimum resolution: WXGA     Must have sees.	
O Must have case Note:	
• XGA: 1024 x 768	
<ul> <li>UXGA: 1624 × 768</li> <li>UXGA: 1600 x 1200</li> </ul>	
• WXGA: 1280 x 800	
<ul> <li>WXGA: 1280 x 800</li> <li>WUXGA: 1920 x 1200</li> </ul>	
- WONGA. 1320 X 1200	
Mount for projector:	Chief RPA Elite Universal Projector Mount with
Lockable	Keyed Locking (A version), RPMAUW

<ul> <li>Universal (compatible with standard LCD Projector)</li> <li>Adjustments available in Roll, Pitch and Yaw</li> </ul>	
Screen (wall mounted or ceiling recessed):  • Standard:  • 16:10  • 57.5" x 92" (H X W)  • Manually operated  • Controlled Screen Return	Da-Lite Model B with CSR #36457
<ul> <li>Mid Size:         <ul> <li>Meet Standard specs except as noted below</li> </ul> </li> </ul>	
<ul> <li>Large:         <ul> <li>Meet Standard specs except as noted below:</li> <li>Electric motor operated (may requires additional power)</li> </ul> </li> </ul>	
Speakers:  • front of room:  • 2 speakers  • Non-Powered  • Non-Amplified  • Surface mountable  • Compatible with our Amp	JBL
<ul> <li>Ceiling mounted:</li> <li>4 recessed speakers</li> <li>Puck compatible</li> <li>8 Ohms (20-40 watts)</li> </ul>	OWI IC5
Amp:  Peak: 10 Watts  Input connectors: 3.5mm, Dual RCA  Output connectors: RJ-45	AmpLINC Hub by SP Controls
Document camera:  • HDMI output  • Adjustable neck  • Microphone (built in)  • USB port (for flash drive)  • Record minimum 30 fps  • Minimum 1080p output  • Image capture	Lumens, Model DC192 (Ladybug)

<ul> <li>Intel core i7</li> <li>Minimum 8 GB RAM</li> <li>Minimum 256 GB SSD</li> <li>Micro form factor</li> </ul> Computer monitor: <ul> <li>24" LCD monitor</li> <li>Built in web cam</li> <li>Built in microphone</li> <li>Built in speakers</li> <li>VESA mount</li> </ul> Control panel: <ul> <li>IR control of multiple devices</li> <li>Modular</li> </ul> Electronic door lock: <ul> <li>(http://service</li> <li>service</li> <li>Service</li> </ul> SP Control panel: <ul> <li>IR control of multiple devices</li> <li>Modular</li> </ul> Electronic door lock: Flectronic door lock: The Control panel SP Control panel Electronic door lock: Flectronic door lock:	CSF standard desktop computer  //www.ccsf.edu/en/employee- es/technology-services2/technical- es/Computers.html)  CSF standard desktop monitor for yees (http://www.ccsf.edu/en/employee- es/technology-services2/technical- es/Computers.html)
<ul> <li>Win 10</li> <li>Intel core i7</li> <li>Minimum 8 GB RAM</li> <li>Minimum 256 GB SSD</li> <li>Micro form factor</li> </ul> Computer monitor: <ul> <li>24" LCD monitor</li> <li>Built in web cam</li> <li>Built in microphone</li> <li>Built in speakers</li> <li>VESA mount</li> </ul> Control panel: <ul> <li>IR control of multiple devices</li> <li>Modular</li> </ul> Electronic door lock: <ul> <li>Schlag</li> </ul> Schlag Schlag Schlag Schlag Schlag	/www.ccsf.edu/en/employee- es/technology-services2/technical- es/Computers.html)  CSF standard desktop monitor for yees (http://www.ccsf.edu/en/employee-es/technology-services2/technical-es/Computers.html)
<ul> <li>24" LCD monitor</li> <li>Built in web cam</li> <li>Built in microphone</li> <li>Built in speakers</li> <li>VESA mount</li> </ul> Control panel: <ul> <li>IR control of multiple devices</li> <li>Modular</li> </ul> Electronic door lock: <ul> <li>Schlag</li> </ul>	yees (http://www.ccsf.edu/en/employee- es/technology-services2/technical- es/Computers.html)
<ul> <li>IR control of multiple devices</li> <li>Modular</li> <li>Electronic door lock:</li> </ul>	ntrols Pixie Pro (PX2-MP-IR)
Schlag	
- Companionity with valuerbilt system	e AD-400 with Multi-Technology reader
Infrastructure:  Power:  Quad on ceiling:  Projector  NRC  NRC  Spare  Duplex for speakers  Ground loop isolator required  Duplex for Instructor's Workstation  Additional power may be required for optional/not standard equipment  Data  Quad in ceiling:  Wifi x2  NRC  Spare  Duplex for Instructor's Wifi x2  NRC  Spare  Duplex for Instructor's Workstation	

Non money conferen	
Non-porous surface     Non-porous surface	
Porcelain/Ceramic	
Magnetic	
AV Switcher:	
Minimum input	
O HDMI x4	Kramer Electronics Model VP-440
o 3.5 mm audio jack	Rumer Electronics Woder VI 440
Minimum resolution: WXGA	
• William resolution. WAGA	
Networked Room Controller (NRC):	
web-enabled controller for any display	
device	
Ports:	
o one bidirectional RS-232 control	
port	
<ul> <li>one infrared (IR) control port</li> </ul>	SP Controls PX2-NRC-1142
<ul> <li>four low-voltage relays for</li> </ul>	
screens or lifts	
<ul> <li>two general purpose sense ports</li> </ul>	
for security and theft detection.	
<ul> <li>Web based configuration, control,</li> </ul>	
monitoring, and management	
Instructor Workstation (dock):	
Instructor Workstation (desk):	Computer Comfort Dower Lift
Height adjustable     Lecking sabinet on rear	Computer Comfort Power Lift
Locking cabinet on rear	
Optical disc player (Blu-Ray):	
Max width: 14"	
HDMI out	
Desirable:	Sony BDP S3700
<ul><li>Use (play, pause, stop, etc)</li></ul>	
without the need of remote	
Surround sound:	
Interactive whiteboard:	
Voice amplification:	
<ul><li>Installed</li></ul>	
0	
<ul> <li>Portable</li> </ul>	Lightspeed Redcat Access, Flexmike Pendant
0	Microphone, Flexmike Cradle Charger
A control of the control	Living Bridge and Grant Advisor Of Co.
Assistive listening:	Listen Point Sound System, Model LPT-S1-01

•	
Video monitors:	
Flat panel	
Video camera:	
• Fixed	
<ul><li>Pan/Tilt/Zoom</li></ul>	

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