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)
- 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

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

Revised 1 Mar 18
<table>
<thead>
<tr>
<th>Standard Equipment Specifications</th>
<th>CCSF Current Standard Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling Projector:</td>
<td></td>
</tr>
<tr>
<td>• Standard</td>
<td>Maxell MP-WU5503 (LCD laser)</td>
</tr>
<tr>
<td>o LCD</td>
<td></td>
</tr>
<tr>
<td>o Minimum input:</td>
<td></td>
</tr>
<tr>
<td>▪ HDMI x2</td>
<td></td>
</tr>
<tr>
<td>▪ RJ-45 Ethernet</td>
<td></td>
</tr>
<tr>
<td>▪ RJ-45 HD BaseT</td>
<td></td>
</tr>
<tr>
<td>▪ 3.5mm stereo</td>
<td></td>
</tr>
<tr>
<td>▪ RS-232</td>
<td></td>
</tr>
<tr>
<td>o Minimum output:</td>
<td></td>
</tr>
<tr>
<td>▪ HDMI</td>
<td></td>
</tr>
<tr>
<td>▪ 3.5mm stereo</td>
<td></td>
</tr>
<tr>
<td>o Minimum lumens: 5,000</td>
<td></td>
</tr>
<tr>
<td>o Minimum resolution: WUXGA</td>
<td></td>
</tr>
<tr>
<td>o Lamp: laser</td>
<td></td>
</tr>
<tr>
<td>o Wide format</td>
<td></td>
</tr>
<tr>
<td>o Compatible with SP Control NRC</td>
<td></td>
</tr>
<tr>
<td>o Ceiling mountable</td>
<td></td>
</tr>
<tr>
<td>o 57.5” x 92” image at 12’ from</td>
<td></td>
</tr>
<tr>
<td>front of room</td>
<td></td>
</tr>
<tr>
<td>• Mid size</td>
<td>Maxell CP-WX5603 (LCD laser) / Maxell MP-WU8701W (LCD laser/ interchangeable lens)</td>
</tr>
<tr>
<td>o Meet Standard specs except as</td>
<td></td>
</tr>
<tr>
<td>noted below</td>
<td></td>
</tr>
<tr>
<td>o Minimum lumens: 6,000</td>
<td></td>
</tr>
<tr>
<td>• Large</td>
<td>Maxell CP-WU9101B</td>
</tr>
<tr>
<td>o Meet Standard specs except as</td>
<td></td>
</tr>
<tr>
<td>noted below</td>
<td></td>
</tr>
<tr>
<td>o Minimum lumens: 10,000</td>
<td></td>
</tr>
<tr>
<td>Short throw Projector:</td>
<td>Maxell MC-AW3506</td>
</tr>
<tr>
<td>• Meet Standard specs except as</td>
<td></td>
</tr>
<tr>
<td>noted below</td>
<td></td>
</tr>
<tr>
<td>Portable Projector:</td>
<td>Epson PowerLite Series 1785W WXGA 3LCD Projector</td>
</tr>
<tr>
<td>o Minimum input: HDMI x2</td>
<td></td>
</tr>
<tr>
<td>o Weigh: less than 4 pounds</td>
<td></td>
</tr>
<tr>
<td>o Minimum lumens: 3,000</td>
<td></td>
</tr>
<tr>
<td>o Minimum resolution: WXGA</td>
<td></td>
</tr>
<tr>
<td>o Must have case</td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td></td>
</tr>
<tr>
<td>• XGA: 1024 x 768</td>
<td></td>
</tr>
<tr>
<td>• UXGA: 1600 x 1200</td>
<td></td>
</tr>
<tr>
<td>• WXGA: 1280 x 800</td>
<td></td>
</tr>
<tr>
<td>• WUXGA: 1920 x 1200</td>
<td></td>
</tr>
<tr>
<td>Mount for projector:</td>
<td>Chief RPA Elite Universal Projector Mount with Keyed Locking (A version), RPMAUW</td>
</tr>
<tr>
<td>• Lockable</td>
<td></td>
</tr>
</tbody>
</table>

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- **Universal** (compatible with standard LCD Projector)
- Adjustments available in Roll, Pitch and Yaw

### 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

- **Mid Size:**
  - Meet Standard specs except as noted below

- **Large:**
  - Meet Standard specs except as noted below:
    - Electric motor operated (may requires additional power)

### Speakers:
- **front of room:**
  - 2 speakers
  - Non-Powered
  - Non-Amplified
  - Surface mountable
  - Compatible with our Amp

- **Ceiling mounted:**
  - 4 recessed speakers
  - Puck compatible
  - 8 Ohms (20-40 watts)

JBL

**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)
### Instructor Computer:
- Win 10
- Intel core i7
- Minimum 8 GB RAM
- Minimum 256 GB SSD
- Micro form factor


### Computer monitor:
- 24" LCD monitor
- Built in web cam
- Built in microphone
- Built in speakers
- VESA mount


### Control panel:
- IR control of multiple devices
- Modular

SP Controls Pixie Pro (PX2-MP-IR)

### Electronic door lock:
- Compatibility with Vanderbilt system

Schlage AD-400 with Multi-Technology reader

### Infrastructure:
- Power:
  - Quad on ceiling:
    - Projector
    - Video Transceiver
    - 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 Workstation

### Whiteboards:

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- Non-porous surface
- Porcelain/Ceramic
- Magnetic

**AV Switcher:**
- Minimum input
  - HDMI x4
  - 3.5 mm audio jack
- Minimum resolution: WXGA

**Networked Room Controller (NRC):**
- Web-enabled controller for any display device
- Ports:
  - One bidirectional RS-232 control port
  - One infrared (IR) control port
  - 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

**Instructor Workstation (desk):**
- Height adjustable
- Locking cabinet on rear

**Optical disc player (Blu-Ray):**
- Max width: 14''
- HDMI out
- Desirable:
  - Use (play, pause, stop, etc) without the need of remote

**Surround sound:**

**Interactive whiteboard:**

**Voice amplification:**
- Installed
- Portable

**Assistive listening:**
- Listen Point Sound System, Model LPT-S1-01

**Kramer Electronics Model VP-440**

**SP Controls PX2-NRC-1142**

**Computer Comfort Power Lift**

**Sony BDP S3700**

**Lightspeed Redcat Access, Flexmike Pendant Microphone, Flexmike Cradle Charger**
<table>
<thead>
<tr>
<th>Video monitors:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Flat panel</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Video camera:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Fixed</td>
<td></td>
</tr>
<tr>
<td>• Pan/Tilt/Zoom</td>
<td></td>
</tr>
</tbody>
</table>

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