INSTRUCTIONAL SPACE TECHNOLOGY STANDARDS 3-1-2017

TIER 1a – Classroom, with < 50 student seats, and video projector

- Video projector producing 5000+ lumens at WUXGA resolution (Panasonic PT RZ570)
  - $5,000
- High definition document camera (Lumens DC192) #
  - $600
- Switcher/scaler/amplifier/controller (Extron IN 1608 IPCP SA) #
  - $3,800
- Extron control panel (E-Bus)
  - $500
- Cable access enclosure with HDMI, network, USB & AC connections
  - $3,000
- DTP receiver #
  - $300
- Playback speakers #
  - Depending on type of ceiling and other factors, either:
    - 4 ceiling speakers (JBL Control 26) - OR -
    - 2 wall mounted speakers (JBL Control 25-1)
  - $500
- Cabling
  - $500
- Raceway #
  - $200
- Projector mount #
  - $200
- Power conditioners
  - $200
- Cable management & hardware
  - $200

- TOTAL $15,000

# This item is required for new or upgraded installation but may not be required for refresh.
TIER 1b – Classroom, with < 50 student seats, and flat panel displays

- (2) 82” or larger commercial-grade interactive flat panel displays (Samsung DM82E-BR)
  - o $7,800 each; $15,600
- High definition document camera (Lumens DC192) #
  - o $600
- Switcher/scaler/amplifier/controller (Extron IN 1608 IPCP SA) #
  - o $3,800
- Extron control panel (E-Bus)
  - o $500
- Cable access enclosure with HDMI, network, USB & AC connections
  - o $3,000
- (2) DTP receiver #
  - o $300 each; $600
- Playback speakers #
  - o Depending on type of ceiling and other factors, either:
    - ▪ 4 ceiling speakers (JBL Control 26) - OR -
    - ▪ 2 wall mounted speakers (JBL Control 25-1)
  - o $500
- Cabling
  - o $700
- Raceway #
  - o $300
- (2) FPD mounts #
  - o $800 each; $1,600
- Power conditioners
  - o $400
- Cable management & hardware
  - o $400

  ▪ TOTAL $28,000

# This item is required for new or upgraded installation but may not be required for refresh
TIER 2 – Lecture hall, < 150 student seats

- Video projector producing 10,000+ lumens at WUXGA resolution (Panasonic PT-RZ970)  
  o $20,000
- Special focal-length lens (may be necessary, consult Media Services)  
  o $2,500
- High definition document camera (Lumens DC192) #  
  o $600
- Switcher/scaler/amplifier/controller (Extron IN 1608 IPCP MA70) #  
  o $3,800
- Extron control panel (E-Bus)  
  o $500
- Cable access enclosure with HDMI, network, USB & AC connections  
  o $3,000
- DTP receiver #  
  o $300
- (2) Full range playback speakers (JBL Control 30) #  
  o $1,500
- 1 wireless lapel microphone system w/Countryman elements (Shure ULXD-4)  
  o $1,500
- 1 wireless handheld microphone system (Shure ULXD-4)  
  o $1,500
- Ceiling speakers (JBL Control 24; minimum of 12, exact number TBD) #  
  o $1,000+
- 1 Audio mixer (Extron MVC 121 Plus)  
  o $300
- 1 Audio power amplifier (Extron XPA 4002)  
  o $800
- Hearing assistive system (Williams PPAV) #  
  o $1,000
- Cabling  
  o $900
- Raceway #  
  o $200
- Projector mount #  
  o $300
- Power conditioners  
  o $200
- Cable management & hardware  
  o $600

■ TOTAL $40,350
INSTRUCTIONAL SPACE TECHNOLOGY
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TIER 3 – Lecture hall, >150 student seats

• Consult Media Services for system design and pricing.

• Other specialized rooms may require variations on these designs, consult Media Services.

• Examples include:
  o Rooms requiring additional video sources
  o Rooms with more than 2 displays
  o Rooms requiring the ability to display different content on different displays
  o Certain labs