

# INSTRUCTIONAL SPACE TECHNOLOGY STANDARDS 11-15-2018

## TIER 1a – Classroom, with < 40 student seats, and video projector

- LCD video projector producing 6000+ lumens at WUXGA resolution
  - \$7,500
- High definition document camera (Lumens DC192 or equivalent) #
  - \$750
- Switcher/scaler/amplifier/controller (Extron IN 1608 IPCP SAxi) #
  - \$4,200
- Extron control panel (E-Bus)
  - \$500
- Cable access enclosure with HDMI, network, USB & AC connections
  - \$3,000
- DTP receiver #
  - \$400
- 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
  - \$250
- Cable management & hardware
  - \$200

▪ **TOTAL \$18,200**

*# This item is required for new or upgraded installation but may not be required for refresh.*

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## TIER 1b – Classroom, with < 50 student seats, and flat panel displays

- (2) 82" or larger commercial-grade interactive flat panel displays (Samsung DM82E-BR or equivalent)
    - \$8,300 each; \$16,600
  - High definition document camera (Lumens DC192 or equivalent) #
    - \$600
  - Switcher/scaler/amplifier/controller (Extron IN 1608 IPCP SAxi) #
    - \$4,200
  - Extron control panel (E-Bus)
    - \$500
  - Cable access enclosure with HDMI, network, USB & AC connections
    - \$3,000
  - (2) DTP receiver #
    - \$300 each; \$600
  - 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
    - \$700
  - Raceway #
    - \$500
  - (2) FPD mounts #
    - \$800 each; \$1,600
  - Power conditioners
    - \$500
  - Cable management & hardware
    - \$500
- **TOTAL \$29,800**

*# This item is required for new or upgraded installation but may not be required for refresh*

# INSTRUCTIONAL SPACE TECHNOLOGY STANDARDS 11-15-2018

## TIER 2 – Lecture hall, < 150 student seats

- Video projector producing 12,000+ lumens at WUXGA resolution
  - \$22,000
- Special focal-length lens (may be necessary, consult Media Services)
  - \$2,500
- High definition document camera (WolfVision vSolutionsCam or equivalent) #
  - \$1750
- Switcher/scaler/amplifier/controller (Extron IN 1608 IPCP MA70xi) #
  - \$4,200
- Extron control panel (E-Bus)
  - \$500
- Cable access enclosure with HDMI, network, USB & AC connections
  - \$3,000
- DTP receiver #
  - \$300
- (2) Full range playback speakers (JBL Control 30) #
  - \$1,800
- 1 wireless lapel microphone system w/Countryman elements (Shure ULXD-4)
  - \$1,700
- 1 wireless handheld microphone system (Shure ULXD-4)
  - \$1,700
- Ceiling speakers (JBL Control 24; minimum of 12, exact number TBD) #
  - \$1,000+
- 1 Audio mixer (Extron MVC 121 Plus)
  - \$400
- 1 Audio power amplifier (Extron XPA 4002)
  - \$900
- Hearing assistive system (Williams PPAV) #
  - \$1,000
- Cabling
  - \$1500
- Raceway #
  - \$400
- Projector mount #
  - \$350
- Power conditioners
  - \$300
- Cable management & hardware
  - \$600

▪ **TOTAL \$45,000 +**

# **INSTRUCTIONAL SPACE TECHNOLOGY STANDARDS 11-15-2018**

## **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:
  - Rooms requiring additional video sources
  - Rooms with more than 2 displays
  - Rooms with interactive displays
  - Rooms with videoconferencing origination capability
  - Rooms requiring the ability to display different content on different displays
  - Certain labs