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.
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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)
  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)
  - $20,000
- Special focal-length lens (may be necessary, consult Media Services)
  - $2,500
- High definition document camera (Lumens DC192)
  - $600
- Switcher/scaler/amplifier/controller (Extron IN 1608 IPCP MA70)
  - $3,800
- 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)
  - $1,500
- 1 wireless lapel microphone system w/Countryman elements (Shure ULXD-4)
  - $1,500
- 1 wireless handheld microphone system (Shure ULXD-4)
  - $1,500
- Ceiling speakers (JBL Control 24; minimum of 12, exact number TBD)
  - $1,000+
- 1 Audio mixer (Extron MVC 121 Plus)
  - $300
- 1 Audio power amplifier (Extron XPA 4002)
  - $800
- Hearing assistive system (Williams PPAV)
  - $1,000
- Cabling
  - $900
- Raceway
  - $200
- Projector mount
  - $300
- Power conditioners
  - $200
- Cable management & hardware
  - $600

- TOTAL $40,350
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 requiring the ability to display different content on different displays
  - Certain labs