

Department spaces used for instruction & conferencing

Audio Visual Campus Standards



Existing Department Room Types

AV Capable

Non-general assignment, department-managed spaces that are currently equipped with presentation technology that enables the output of video and sound (i.e., mounted television with speakers or projector screen with speakers)

AV Deficient

Non-general assignment, department-managed spaces with capacity under 40 that are NOT currently equipped with presentation technology (any rooms with capacity over 40 will likely not be able to accommodate dual-mode instruction)



AV Capable

Recommendation is to bolster these rooms to mirror general assignment (GA) rooms, such as:

- Advanced ceiling-mounted, voice-tracking microphone system
 - Wireless mic lapel optional for in-room amplification
- Pan/tilt/zoom camera mounted at back of room, configured with presets for scene type
- Audio and visual signals routed to the in-room PC
- When running Zoom, this setup will allow for synchronous two-way communication between in-room and remote participants

Sample Equipment List for Standard AV Capable Room

Qty	Description	Manufacturer	Price Per	Subtotal
1	Pan, Tilt, Zoom HD Camera	Lumens	\$2,000.00	\$2,200.00
1	Wall mount shelf for HD Camera	Lumens	\$160.00	\$176.00
1	Ceiling mounted mic array	Sennheiser	\$2,900.00	\$3,190.00
1	Power for ceiling mic	TP Link	\$50.00	\$55.00
1	Document camera (HDMI & USB)	Hover Camera	\$500.00	\$550.00
1	Rack Shelf	Various	\$80.00	\$88.00
1	Audio to USB converter	Extron	\$1,620.00	\$1,782.00
1	SDI to USB converter for Camera Signal	Epiphan	\$430.00	\$473.00
1	Wireless Microphone Receiver	Shure	\$450.00	\$495.00
1	Wireless microphone Transmitter (body)	Shure	\$200.00	\$220.00
1	Assorted cables, hardware	Various	\$500.00	\$550.00
1	SDI to HDMI converter for Camera signal	Blackmagic	\$60.00	\$66.00
			EQ Total	\$9,845.00

Please note that the above list is based on a standard AV capable room. Your room needs may vary. Additionally, the pricing listed is base campus pricing. Please anticipate a price increase of 20-50% when contracting an outside integrator for installation.

Benefits

- Existing audio visual equipment bolstered by additional tech
- Ceiling-mounted, voice-tracking microphone allows remote students to hear instructor & in-class students
- Room speakers allow remote students to participate in real-time with 2-way audio
- Zoom allows presentation to be live-streamed to remote students or for guest speaker participation
- Back-wall-mounted PTZ camera allows instructor to teach from front of room
- Projection allows in-class students to learn & participate



AV Deficient

Rooms Intended for Conferencing

Recommendation is to install basic dual-mode presentation technology, including:

- Wall-mounted TV
- Advanced all-in-one USB-connected conferencing system (microphone, camera, speakers)
- Presenter will bring their own device, plug it in, launch Zoom, and present to both in-room and remote audience

Rooms Intended for Instruction

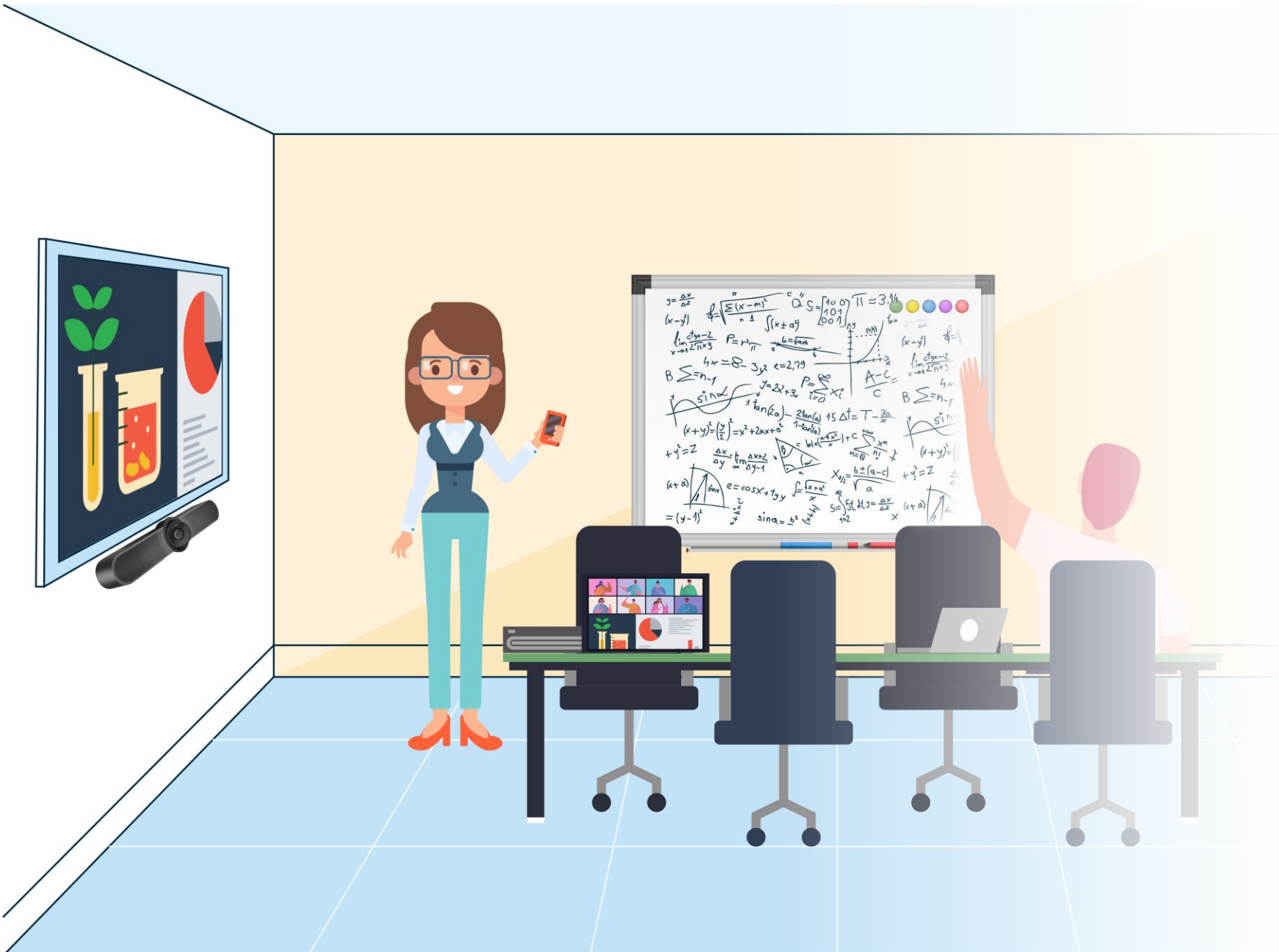
If investment in or permanent installation of suggested classroom technology is not possible, the recommendation is to purchase a mobile video conferencing device that can be used to enhance room AV capability on an "as needed" basis ([learn more](#))



Sample Equipment List for Standard AV Deficient Room

Qty	Description	Manufacturer	Price Per	Subtotal
1	LED TV	Various	\$1,200.00	\$1,320.00
1	USB conference camera/mic/speakers	Logitech	\$4,000.00	\$4,400.00
1	Document camera (HDMI & USB)	Hover Camera	\$500.00	\$550.00
1	USB camera mount	Various	\$100.00	\$110.00
1	Control system	Various	\$500.00	\$550.00
1	Miscellaneous cables and connectors	Various	\$100.00	\$110.00
1	Wall plate for connections	Various	\$100.00	\$110.00
1	TV wall mount	Various	\$300.00	\$330.00
			EQ Total	\$7,480.00

Please note that the above list is based on a standard AV deficient room. Your room needs may vary. Additionally, the pricing listed is base campus pricing. Please anticipate a price increase of 20-50% when contracting an outside integrator for installation.



Benefits

- Presenter plugs in own device to in-room AV system via USB
- Camera mounted under TV means content on other walls, such as whiteboards, may not be captured
- TV display allows in-room and remote attendees to participate
- All-in-one conferencing system allows remote attendees to participate in real-time with 2-way audio
- Zoom allows presentation to be live-streamed to remote audience
- Camera mounted under TV means video may capture presenter profile

Questions?

If you have specific questions or concerns about the multimedia technology needed to support your specific department space, you can [request a technology consultation](#). ITS will provide custom recommendations based on your needs, and will help you work with an outside integrator for installation.



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