Rio Hondo College Classroom Audiovisual Standard Spec

Audiovisual capabilities in each classroom will support the use of audio, video and computer based media for group instruction, study and presentation.

**Equipment Used:**

A. **Projector:** Use Hitachi minimum 3000 ANSI lumen, minimum 1280x800 resolution, HDMI connection, with wired networking.

B. **Screen:** Draper or equivalent with a 16:10 aspect ratio. Screen height should be at least 1/6 the distance from the screen to the furthest seat.

C. **Audio:** Ceiling mounted
   - a. One speaker per 150-200 square feet
   - b. Appropriate amplifier(s) to power them.

D. **Instructor Station:** Lectern with an included 12U rack space in a locking enclosure, overbridge with a 3 gang and 2 gang cutout for control and input panels, cable paths, and standard 110 AC outlet.

E. **Signal matrixing and routing:** Digital and analog video and audio switcher/scaler with inputs for:
   - a. Digital PC (HDMI, DisplayPort, etc.)
   - b. Two additional HDMI ports
   - c. VGA
   - d. Composite

F. **Control panel:** MPC series from Crestron. Control buttons to be labeled and include functions as required:
   - a. Projector power toggle
   - b. Volume control
   - c. Microphone audio control (separate from source) gain up/down/mute
   - d. Source selection:
     - i. Rack PC
     - ii. DVD/Bluray player
     - iii. HDMI
     - iv. VGA
     - v. Aux Video
     - vi. Projector Image Mute (separate from audio)

G. **AV connection panels:**
   - a. Wall input panel with appropriate device connection plates as required (HDMI, speaker, control)
   - b. Instructor Station input panel (HDMI, VGA +3.5mm audio, Composite w/ RCA audio, Female XLR, 3.5mm ALS output)

H. **Wired gooseneck microphone**

I. **Option for future wireless microphone**
Room Arrangement

A. Instructor Station at room front

B. Display
   a. Projection screen at room front mounted with the bottom of the screen at least 40-48” from the floor
   b. Projector ceiling mounted with a security mount centered to screen

C. Speakers ceiling mounted

D. Media sources and inputs
   a. Media sources are located in the equipment rack located in the Instructor Station
      i. Dedicated computer located in rack
      ii. DVD/Bluray player located in rack
      iii. Laptop/Doc cam connections (HDMI, VGA + audio) on input panel on top of Instructor Station
      iv. Microphone located at Instructor Station

E. ALS output located at input panel on top of Instructor Station

F. Audio and video signal matrixing/routing equipment is located in the Instructor Station rack

G. Control Systems
   a. Push-button control panel with built-in control system will be mounted on top of the Instructor Station
   b. Control processing equipment is located in the Instructor Station rack

H. Data network connections
   a. Two are provided at the Instructor Station location
   b. One is provided at the projector location