CAL STATE LONG BEACH

LOCATION: Long Beach, California

MARKET: Higher Education

ABOUT CALIFORNIA STATE UNIVERSITY – LONG BEACH

California State University, Long Beach (CSULB), is a public university. The 322-acre campus is the third largest of the 23-school California State University system and one of the largest universities in the state by enrollment with a student body of more than 37,000.

The Department of Family and Consumer Sciences at CSULB offers programs of study leading to the Bachelor of Arts, Bachelor of Science, and Master of Science, as well as, several degree minors, certificate programs. It is the largest Family and Consumer Sciences program on the West Coast and the largest department on campus, with more than 2,200 majors, minors, graduate and certificate students.

Dual 100-inch monitors can be combined into one large display when needed.

THE CHALLENGE

The Family and Consumer Sciences program needed a room to accommodate its online learning program, specifically for students in the nutrition program. The current room used for many of the nutrition program classes did not allow educators to reach students using remote technologies. As the demand for online learning grew, including the use of telemedicine in most professional settings, CSULB chose to make an investment in its classroom technology.

"We wanted to create an environment in which nutrition students could learn how to interact and consult with patients via telemedicine," said Bonnie Rice, Instructional Support Technician at CSULB. "Initially, the room was built as a hard sciences lab where students could learn about metabolic analysis. The goal was to fit it out with the right technology to help students learn the nuances of online health consultation, which has become so pervasive in medicine today."

THE SOLUTION

AVI Systems worked closely with CSULB's IT and Facilities departments to help the university design a classroom that accommodates both the students and educators. The 1,244-square-foot room includes five student learning stations, each with a 55-inch display that can be used both independently at the station and from the instructor's podium.

As the university's IT team standardizes on technology across the campus, AVI was able to source Extron for the room's infrastructure, which includes a matrix switcher, amplifier, ceiling speakers, a touch panel at the podium, and Media Port to enable web conferencing for online streaming and recording.

The focal point of the room includes two 100-inch displays that receive images from short-throw interactive projectors. Instructors can combine the two screens into one large display, if needed, using Epson Duolink software. In addition, instructors can use a mouse to annotate on the projection screen and/or from the podium computer as needed.

"Our faculty love the interactive capabilities this technology now provides," said Rice. "They can use the full scope of the technology, and still use a white board when it's required. In addition, they can toggle between the displays at each student learning station and the primary display, which enhances student engagement and the overall learning experience."

The classroom also enables distance learners to take part in classes via Zoom meetings using a VDO360 pan-tilt-zoom (PTZ) camera with presets. The camera is controlled using the Extron touch panel.

EQUIPMENT USED IN THE INSTALLATION INCLUDES:

- Dalite 100-inch Idea Screen
- Epson Brightlink Projectors
- Epson Document Camera
- Extron XTP II System Switcher
- Extron Pro Series Touch Panel
- LG 55-inch flat panel displays
- VDO360 – Saber PTZ Video Camera
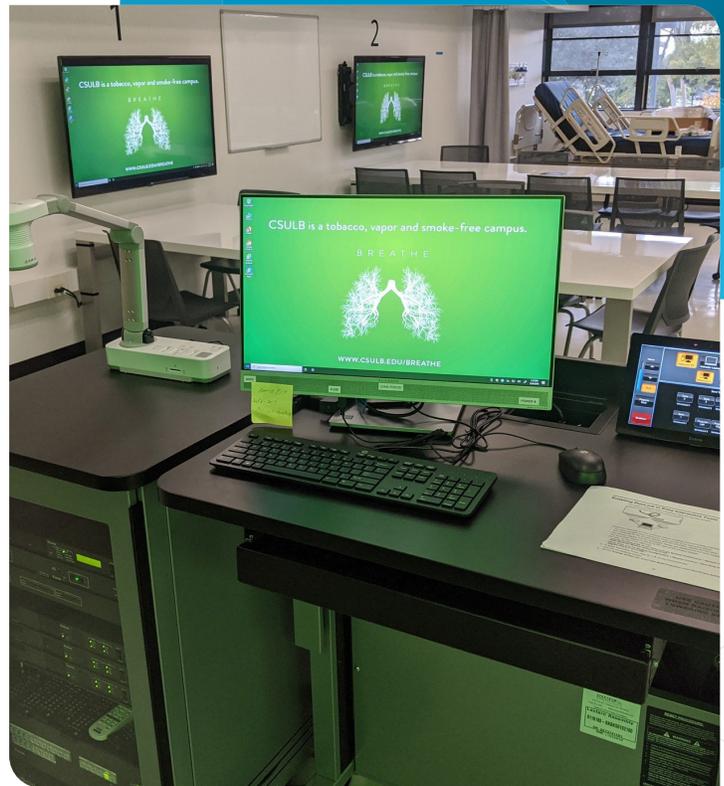
The instructor's podium includes a Extron touch panel to toggle displays and control other AV systems.

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>
> **BONNIE RICE, INSTRUCTIONAL SUPPORT TECHNICIAN, CSULB**

THE RESULT

The new classroom, which seats up to 40 students, features ease-of-use technology for students as well as educators. AVI also worked to minimize the up-front learning required of instructors to use the new technology effectively.

"Teachers don't want to spend hours learning how to use systems, they want it to be intuitive and simple. We accomplished this goal by deploying the right tools they can quickly adapt to," said Rice. "Our faculty knows that online learning and telemedicine are critical to the program's future, so they're willing to adapt to the change to ensure students have access to the latest and greatest in real-world technology."

AVI integrated Audix ceiling microphones as well as flush-mount speakers that blend in with the ceiling itself. "In-room lighting and audio is critical, especially when designing a space that will be used for online learning and telemedicine consults," added Rice. "AVI helped us identify and build in the best solutions that provide a perfect online learning environment."

The team also incorporated Extron Global Viewer, a system used by the IT department to monitor the health of campus-wide technologies. In addition to Extron Global

" THE DUAL NATURE OF THE CLASSROOM MAKES IT BOTH HIGH TECH AND HANDS-ON FOR APPLICATION TO HOSPITAL ROOM SETTINGS. STUDENTS CAN DO LAB ANALYSES, USE A SMALL HAND WASHING STATION, AND GET HIGH TECH WITH TELEMEDICINE APPLICATIONS."

DR. WENDY REIBOLDT, PH.D., PROFESSOR AND CHAIR, DEPARTMENT OF FAMILY AND CONSUMER SCIENCES, CAL STATE LONG BEACH

Viewer monitoring, the room includes AVI Pro Support Services built in for the next three years.

"AVI Pro Support includes unlimited training and break-fix support, so the university can be confident the room will be up and running and supported by trained staff, faculty, IT, and AV personnel for the next few years," noted Michael Brandmire, Executive Account Manager for AVI Systems. "Distance Learning and Hybrid Classrooms are gaining more and more traction as health and safety factors continue to evolve alongside technological advances. We work on many massive campus technology deployments nationwide to help teachers and students deal with the new normal. It was really special to be part of one of the first rooms to check all boxes for the Family and Consumer Sciences team at CSULB."

The Active Learning Classroom includes five student learning stations where students can work in small groups and share their work on independent monitors that are easily switched to the main display by the instructor.

HOW CAN WE HELP YOU?

Call 855-521-0050 or visit avisystems.com for more information.