

Santa Rosa Junior College - Broadcast

BACKGROUND

The need for a new library at Santa Rosa Junior College (SRJC) became apparent when an accreditation group visited the campus and recommended expansion to meet the technology and classroom demands of the growing student population. The Frank P. Doyle Library opened in 2006 and serves both the Santa Rosa and Petaluma campuses with library and media services.

DESIGN GOAL

To achieve seamless integration of technology into multiple spaces throughout the 145,000 square foot library absolute teamwork was required between CompView, the A/V consultant and the SRJC Manager of Media Services. Communication and planning were of critical importance to integrate the equipment SRJC already owned with the new technology. The technology enabled spaces included; media viewing rooms, multiple carrels for students to view instructional media, a complete high definition digital color television studio, two technology enriched classrooms for video conferencing and distance learning, a center for new media, and a faculty support area for curriculum development and technology integration.

SOLUTION

CompView worked closely for 18 months with the A/V consultant and the SRJC Manager of Media Services to engineer and install all of the audio, video and broadcast aspects of this fully integrated multimedia library.

In the fully equipped television studio and studio control room students learn basic television production techniques on state-of-the-art equipment, including cameras, recording devices, lighting instruments, audio gathering/mixing tools,



editing equipment and preproduction equipment for both multiple camera studio and single camera field production.

The television studio equipment includes three Hitachi SK-3010B1080i HD – 3CCD studio production cameras for pristine picture quality in both HD and SD. The cameras output 1080/59.94i native scan video. After filming is completed, students move to the audio studio to work with a Pro Tools Dolby HD production system, and Dolby HD software editing programs which enable them to learn surround-sound editing techniques in a group production setting.



The four post production editing rooms are used for editing audio, video, and graphics for the final product of a multimedia project. Students have a choice of using Apple's Final Cut Pro on a Macintosh computer or Sony's Vegas Pro on a MS Windows computer for editing video. These rooms have BlackMagic Design Multibrige Pro broadcast video interface cards which enable the capture and playback of any SDI, HDMI, analog component, analog composite NTSC/PAL, or S-Video material. For audio, 4 channels of AES/EBU digital audio, and 2 channels of pro balanced analog audio connections are included. A Sony DSR-11 DVCAM professional editing video cassette recorder/player allows the user to output the final project to digital tape.

The duplication room is centrally located near the four editing rooms, television studio, and master and audio control rooms. The room contains comprehensive patching facilities to allow extremely flexible connection options between all of the media rooms in the building. The Extron MAV+ 4832 switcher is used for processing and duplication while the Kramer SP-11D video processor/converter enables the duplication room to receive and send in any video format. The Media Services Staff uses this room to duplicate a multimedia production after it is recorded and edited to the desired finished product. Media capability includes; VHS tape, DV, HDV and DVCPRO/HD tape, DVD, and BluRay DVD. The duplication room is generously equipped with the latest technology including;

Sigma's HD-SDI/SD-SDI matrix switch and Purelink's DVI matrix switch allowing flexible routing of both SD and HD digital video in multiple formats, TVOne's Video/SDI/VGA/DVI video processors provide scan/format conversion, Tektronix's WVR-7100 multi-format – multi-standard waveform rasterizer provides comprehensive monitoring and analysis of all audio and video signals in the facility, including Dolby audio and metadata. Finally the Panasonic AJ-HD1400 HD recorder, is used for master program archiving. This HD recorder is optimum quality; similar to those used in professional broadcast studios and provides a clean, pristine HD signal for optimum output.

As a result of careful planning and implementation, all of the media enriched spaces in the new Frank P. Doyle Library provide students and staff with valuable technology resources. The SRJC Media Services Department appreciates the resourceful use of existing equipment, the professional integration of new equipment and the additional capabilities of the new facility.

REGISTERED AND BONDED

- Oregon CCB#134110, 34-514CLE
- Washington COMPVI*O15DT, COMPVVI961CD
- California C-7#778555
- Minnesota TSO0701

See SRJC project profile for more details.



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