

### Carleton College – Athenaeum

The Athenaeum is a room in the Carleton College Library that serves to reinforce the library's role as a central educational and cultural institution of the college. It was established to make it easier for faculty to host visiting lecturers and hold public events on campus. The audio-visual system for the Athenaeum provides voice reinforcement for guest lecturers as well as brilliant large screen display of computer presentations and video content for lectures, seminars, and discussions.

The audio system consists of two separate components. This first component is for voice reinforcement and includes a lapel microphone, three gooseneck tabletop microphones and ceiling speakers. The other component includes a stereo mixer, amplifier, equalizer and speakers, which provide presentation audio for the VCR and DVD player.

Large screen display functionality is accomplished using a high resolution projector with a long throw lens and tensioned electric screen. Since the projector is located 25 feet from the front of the room, the long throw lens makes it possible for the projected image to fit the 5' x 7' electric screen.

On occasions when A/V is not required, the audio-visual system becomes transparent with no hint of technology visible in the room. The electric screen retracts into a slot in the ceiling, the projector is recessed into a space 25 feet back in the room,

#### REGISTERED AND BONDED

- Oregon CCB#134110, 34-514CLE
- Washington COMPVI\*O15DT, COMPVV1961CD
- California C-7#778555
- Minnesota TS00701



the voice reinforcement speakers are invisible above the ceiling woodwork and the presentation audio speakers are discreetly located above the cabinetry behind the fabric covered soffit. The VCR, cassette deck, DVD player and other A/V equipment are located in a rack hidden behind the pillar to the left of the screen.

The entire audio-visual system is operated using a custom-programmed touchscreen control panel. With a simple touch, the presenter can easily control the projector, electric screen, VCR, DVD player and all audio levels. The audio-visual system can also be operated using a keypad near the entrance to the room. All of this makes it easy for library staff and guest lecturers to focus on their presentation content, rather than the presentation technology.



## PROJECT PROFILE

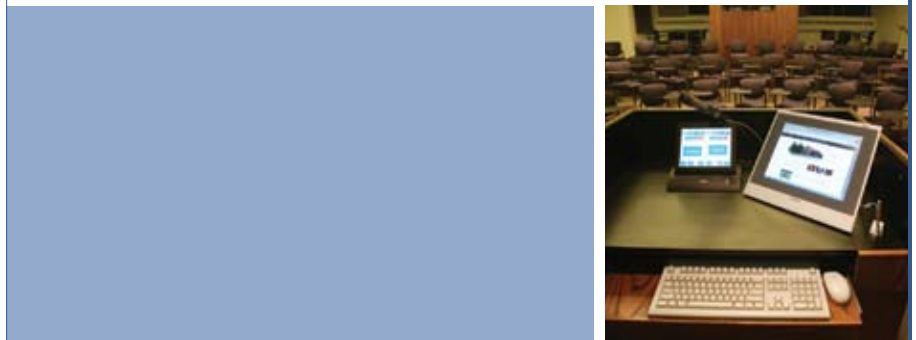
Consulting \* Design \* Engineering \* Installation \* Project Management

### Carleton College – Leighton 304 Classroom

Faculty and guest lecturers use the Leighton 304 classroom at Carleton College for teaching Social Sciences including History, Political Science, Religion and Sociology. To enhance instruction in this heavily used classroom and expand the Social Sciences curriculum, Carleton College developed a multi-phase technology upgrade plan. Phase one incorporates multi-media presentation capability allowing instructors to easily use a variety of audio, video and photo media. Phase two will enable guest speakers to join the classroom via videoconferencing technology and also allow students/alumni to view lectures via streaming video.

The goal of phase one was to incorporate an audio-visual system that would bring full multi-media presentation capability to the classroom. This system includes high-resolution video displays, voice reinforcement and control capabilities. The high impact video display is achieved using dual high-resolution projectors located in a cabinet at the back of the room, which project onto electric screens mounted on either side of the teaching station. The department's extensive collection of 35mm slides can be shown using a slide projector in conjunction with a slide-to-video converter. To further enhance lectures, instructors are able to emphasize key points using a pen tablet to digitally highlight areas on the projected image.

High quality voice reinforcement is achieved with a microphone integrated into the teaching station and the addition of four wall-mounted speakers. Sound



reinforcement for students with hearing impairments is addressed with an ADA compliant mobile hearing assistance system.

The audio-visual system including the electric screens, projectors, volume and lighting levels is controlled using a custom-programmed control panel located at the teaching station. The station also conveniently houses the VCR, DVD player, CD player, cassette players, a document camera and a MAC connected to the network.

The completion of phase one of the technology plan delivers full multi-media presentation capability at the touch of a button. The second phase will build on the current technology with additional equipment enabling videoconferencing and distance learning. With this integrated audio-visual system the Leighton 304 classroom is ready to serve the current and future needs of lecturers at Carleton College.



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