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## Multimedia Standards for Saint Joseph College Technology-Equipped Classrooms

Initiative 4.0 of the *Academic Technology Plan* specifies the institution of a comprehensive strategy to ensure that the multimedia equipment and services provided effectively support the needs of the SJC community. The first phase (4.0.1) of this initiative requires the creation of standards for Multimedia-equipped classrooms at Saint Joseph College.

This document outlines standards for technology and media presentation equipment for three categories of academic and collaboration spaces:

- ✍ **Seminar Room/ Collaboration Space (Level I)**
- ✍ **Standard Classroom (Level II)**
- ✍ **Smart Lectern (Level III)**

For each of the Categories a descriptive summation is given including strengths, weaknesses, optional modifications, and budgetary impact (based on current bid proposals + 10% contingency).

### **Assumptions:** *The Faculty Laptop Model*

A fundamental assumption to this multimedia initiative is the evolution of a *Faculty Laptop Model* for academic technology: as the campus becomes increasingly wireless and faculty begin to incorporate more technology into their instruction, laptops will gradually replace desktops as the computer of choice for faculty. With the new flexibilities of a wireless campus, faculty will be more likely to use laptops, and will choose to bring their laptops to the classroom to deliver media. Increased faculty comfort level is a major benefit of this model; since faculty will be using their 'own' computers in the classroom, difficulties resulting from inconsistencies in file organization, screen layout, and settings (fonts, resolution, etc.) that plague the 'shared computer' model will no longer be an issue. Specialized software faculty may possess will be readily available for use in the classroom, and they will no longer face the uncertainty: "will this work on the AV computer?" Additionally, once faculty machines are configured to 'talk' to wireless projection equipment, and faculty have been tutored in the process, preparing for a class will be a simple matter of placing a laptop on the podium, negotiating a connection, and starting the presentation. Technology will become *transparent* to the teaching process.



## **Level I - Seminar Room/ Collaboration Space**

**Description:** These rooms are typically small in size, and generally feature a central workspace (conference table). Most often used as meeting or collaboration spaces, these rooms can also host small classes or seminars .

**Examples:** VP Finance Conference Room, NC2

**Budget Estimate:** ~\$4,400 (Installed, 1 year warranty, not including electrical installation)

### ***Standard equipment for these rooms will include:***

- ✍ 42" (or larger) LCD flat-panel monitor
- ✍ Wall Access plate for Computer VGA, Computer Audio, and Component RCA connections.

### *Wiring Requirements*

- ✍ Network port (adjacent to access plate)
- ✍ 110 V A/C Duplex Plug (adjacent to access plate)
- ✍ 110 V A/C Duplex Plug (behind wall-mounted panel)

### *Optional Equipment for these rooms may include:*

- ✍ Cable TV hookup
- ✍ Table-mounted access plate (+ \$300)
- ✍ Wireless Network Node
- ✍ 'Lockbox' for Laptop and VCR/DVD
- ✍ Plasma Monitor substituted for LCD (lower cost, lower resolution)

### *Strengths of this setup are:*

- ✍ Simplicity (basically a 'plug-and-play' setup)
- ✍ No remote control required
- ✍ High resolution presentation capabilities with minimal space requirements.

### *Weaknesses of this setup include:*

- ✍ No dedicated equipment: laptop or VCR/DVD player must be brought to meeting (or secured in a lockbox).
- ✍ Size vs. cost restrictions of LCD flat panels



## **Level II – Standard Classroom (Large/Small)**

**Description:** Classrooms across the SJC campus can be categorized as either small (up to 20 students) or large (up to 45 students). These rooms are typically arranged in traditional rows of front facing desks, but newer classrooms (i.e. Lynch hall) may feature flexible worktable arrangements. Standard media equipment for these rooms is identical with the exception of screen size and projector brightness. As a rule of thumb, classrooms where the last row of seats is more than 16 feet from the screen require the larger screen (and possibly the brighter projector). Cost differences for the screen are negligible, but the larger/ brighter projector can add as much as \$1,500 to the project budget.

**Examples:** McDonough 214, Library Seminar Room 1

**Budget Estimate:** ~\$6,000 (Installed, 1 year warranty, not including electrical installation)

### ***Standard equipment for these rooms will include:***

- ✍ 4000 lumen ceiling-mounted wireless LCD projector
- ✍ Powered projection screen with integrated powered speakers
- ✍ Wall Access plate for Computer VGA, Computer Audio, and Component RCA connections.

### *Wiring Requirements*

- ✍ Network port (adjacent to access plate)
- ✍ Network port (adjacent to projector mounting)
- ✍ 110 V A/C Duplex Plug (adjacent to access plate)
- ✍ 110 V A/C Duplex Plug (adjacent to projector mounting)
- ✍ (2) 110 V A/C Duplex Plugs (adjacent to powered speakers)
- ✍ Screen Control Switch

### *Optional Equipment for these rooms may include:*

- ✍ Cable TV hookup (requires CATV tuner for projector + \$300)
- ✍ Wireless Network Node
- ✍ 'Lockbox' for Laptop and VCR/DVD

### *Strengths of this setup are:*

- ✍ Simplicity (basically a "plug-and-play" setup)
- ✍ Wireless connectivity to instructor's laptop
- ✍ Large format theatre quality presentation.

### *Weaknesses of this setup include:*

- ✍ No dedicated equipment: laptop or VCR/DVD player must be brought to meeting (or secured in a lockbox).
- ✍ Remote control is required for operation (can get lost)
- ✍ Laptops must be set up specifically to use wireless feature (probably beyond technical capabilities of instructor)



### **Level III – Smart Lectern**

**Description:** Larger classrooms and collaboration spaces that are used heavily for presentations (particularly recruiting and admissions) would benefit from a turn-key smart lectern solution. With a smart lectern, all presentation equipment is integral to the room setup, and the presenter need only bring media containing his or her presentation files.

**Examples:** McDonough 103, 200

**Budget Estimate:** ~\$12,500 (Installed, 1 year warranty, including Lectern or electrical installation)

#### ***Standard equipment for these rooms will include:***

- ✍ EON Moblis 2424 lectern with 'Viewport' package and 'Wing Top' extension.
- ✍ 4000 lumen ceiling-mounted wireless LCD projector
- ✍ Powered projection screen with integrated powered speakers
- ✍ Podium-integrated PC, VCR/DVD player, control console, and media ports.

#### *Wiring Requirements*

- ✍ Network port (adjacent to podium)
- ✍ 110 V A/C Duplex Plug (adjacent to podium)
- ✍ 110 V A/C Duplex Plug (adjacent to projector mounting)
- ✍ (2) 110 V A/C Duplex Plugs (adjacent to powered speakers)
- ✍ Screen Control Switch

#### *Optional Equipment for these rooms may include:*

- ✍ Cable TV hookup (requires CATV tuner for projector +\$300)
- ✍ Wireless Network Node
- ✍ Additional Presentation Peripherals (e.g. remote video camera and video editing equipment + ~\$2500, wireless microphone +\$300, etc.)

#### *Strengths of this setup are:*

- ✍ Dedicated equipment available at power-on
- ✍ Integrated controls
- ✍ Large format theatre quality presentation
- ✍ Professional appearance

#### *Weaknesses of this setup include:*

- ✍ Size and inflexibility (can overwhelm smaller classrooms)
- ✍ Immobility (Lectern must be fixed to minimize damage to cables and connections).
- ✍ Complexity of Lectern controls
- ✍ Lectern PC settings may be foreign to presenter
- ✍ Cost

