

2011-13 CLASSROOM / INSTRUCTIONAL TECHNOLOGY PROPOSAL

Institution: University of Wisconsin - Madison

Project Title: Classroom Renovation and Instructional Technology Improvements

Project Priority: 1

Funding:

Classroom/IT Program Funds (Capital Budget):	\$ <u>745,200</u>
Classroom Modernization Funds (Operating Budget):	_____
Institutional Funds:	_____
Gifts	_____
Grants	_____
Total Project Cost:	\$ <u>745,200</u>

Project Location:

Building Name: Sterling Hall
Facility Number: 0057
Room Number(s): 2301, 2425 & 3425

of Hours Scheduled/Week:

(highest use--Spring 2010 or Fall 2011)

2301: (NA) converted to classroom
2425: (NA) converted to classroom
3425: 38 WRPs – Fall 2011

Project Goals/Justification: *(Indicate importance of this proposal to your institution, issues to be resolved; utilization and classroom demand data; how the project is captured in the 2006 Classroom/IT Survey, Campus Master Plan, Six-Year Major Project list and/or Maintenance Plan; project impact; and other pertinent info for ranking purposes.)*

Sterling Hall was constructed in 1914. **Classroom 3425** is a mid-sized classroom located on the third floor near a central pedestrian route at the building's south entry. The accessible route begins at a first floor northwest entrance and uses an elevator that is part of the established ADA path of travel to the north entrance of the room. There is an accessible seating area at the front portion of the room. The demonstration area has a flat floor and is located in the west section of the room.

This classroom primarily serves departments from the College of Letters and Science. Course sections from departments housed in or nearby Sterling Hall make up the majority of the class sections assigned into this classroom (Women's Studies, Astronomy, Mathematics and overflow language courses from the Van Hise building). Class enrollments have ranged from 3 to 47 over the past four semesters with an average of 28.7 Weekly Room Periods. There is some audiovisual technology in this classroom. The University's Office of the Registrar has identified increasing demand for modern classrooms with flexible seating formats in the 40-60 capacity range. Classroom utilization data over the past two years reflects a greater use of technology equipped classrooms over classrooms without technology in Sterling Hall. Smaller sized classrooms with technology that also have flexible furniture show an even greater use than fixed seating, technology-intensive classrooms. A recent Major project (DSF #05e1z) upgraded some mechanical components, provided new ceilings, lighting, and other aesthetic improvements throughout the facility. No other major room improvements have occurred since original building construction. A minor remodeling project provided a video projector, program speakers and an instructor's station in 1990. A classroom modernization project installed a replacement video projector and new instructor's station in 2010. Most of the existing audiovisual items will be salvaged and used elsewhere on campus.

Classrooms 2425 and 2301 were most recently used as temporary surge laboratory space for the School of Human Ecology during the construction of their new facility. Each room will become a mid-sized classroom located near a central pedestrian route at the building's south and west entrances. The accessible route begins at the first floor northwest entrance and uses an elevator that is part of the established ADA path of travel to the north entrance of 2425 and the west entrance of 2301. There is an accessible seating area at the front of both rooms. Both demonstration areas have flat floors and are located at the east section of 2425 and the north section of 2301.

These two classrooms also serve departments from the College of Letters and Science. Course sections from home and nearby departments will use these new classrooms (Women's Studies, Astronomy, Mathematics, Physics, Economics and overflow language courses from the Van Hise building). Projected class enrollments range from 18 to 50. Currently, there is no modern audiovisual technology in these rooms. The University Office of the Registrar has identified increasing demand for modern classrooms with flexible seating formats in the 40-60 capacity range. A recent Major project upgraded some mechanical components, provided new ceilings, lighting and other aesthetic improvements. No other major room improvements have occurred since original building construction. Both classrooms will receive a campus standard audiovisual system plus key room elements that will create unique active learning classrooms. All classrooms will have mobile student stations that will allow them to easily reconfigure their seating arrangements. Several display panels will be distributed throughout all three classrooms. Each panel will be accessed via a quick connection port to enable small breakout "learning pods" within each room. A conventional classroom configuration can be restored with minimal effort. The central projector and all side panels will be controlled at the instructor's station.

A three inch raised floor will be provided in **classroom 2425** to accommodate the electrical and data connection ports serving the six proposed learning pods. Each learning pod is composed of six movable tables and six movable chairs. These learning pods will have a central connection panel and pop-up 120v outlets serving each station. Each central connection panel can be repositioned underneath the new raised floor. These learning pods will allow each class to split into independent work groups ranging from 1-6 students. Each breakout group can utilize the dedicated panel display in their area. Portable writing surfaces will be provided to augment the audiovisual package for each pod.

Classrooms 2301 & 3425 will be designed in a similar fashion with the exception of no raised floor and no floor box connection panels. Each pod can accommodate 1-12 mobile student stations. Selected breakout groups can utilize the panel displays in their designated area. Portable writing surfaces will be provided to augment the audiovisual package for each pod.

At this time the Campus Master Plan has not identified any new facility upgrades or any planned departmental relocations within Sterling Hall. There are no Major Projects or substantial maintenance improvements proposals for this facility in the near future. Although the 2006 Classroom/IT Survey classified classroom 3425 Sterling Hall as a type A classroom, there remain several sight line, equipment and access issues that can only be addressed by a total room renovation. It is critical that this classroom be remodeled during the proposed remodeling timeframe to help minimize disruption to surrounding classroom instruction. Improved classroom utilization is expected for each new active learning classroom.

If prior Classroom/IT Program funding was received for a classroom now being requested, include a brief description of what was done, when, and why funding is being sought a second time.

NA

Project Scope:

Room 2301:	Assignable Square Feet (ASF):	Current <u>1,115</u>	Proposed * <u>1,115</u>
Room 2425:	Assignable Square Feet (ASF):	Current <u>1,318</u>	Proposed * <u>1,318</u>
Room 3425:	Assignable Square Feet (ASF):	Current <u>1,335</u>	Proposed * <u>1,335</u>

*Note: If mechanical chases can be modified or eliminated, additional square footage may be obtained.

(Describe the work involved, i.e., creating new classrooms; resizing; HVAC, electrical, lighting modifications; resolving ADA issues involving path of travel, water coolers, restrooms, etc; asbestos removal/abatement; lead paint removal; acoustical treatment; improved sight lines; seating replacement; floor, wall, ceiling, window treatments; technology requirements; etc.)

This renovation project will address general building ADA issues (provide compliant door hardware, signage, assisted listening devices, closed captioning) as well as specific improvements to the demonstration and wheelchair seating areas. Wheelchair accessible restrooms and new water coolers were added during a recent building renovation project. The requested remodeling will improve sight lines to the demonstration area, provide a large video image at the teaching wall and add panel displays throughout each room. The current student seating is restrictive and is not easily reconfigured into an engaging learning format. The mechanical systems serving these classrooms have been upgraded for steam heat but currently do not have any cooling capacity. The south and west facing windows require mini blinds and window film treatments. The interior of each room will receive new paint, acoustical wall panels and floor coverings. The tile floor would be removed and recovered with interchangeable carpet tiles throughout the area. A new, low-maintenance suspended ceiling with 2' x 2' acoustic tiles would be installed. Energy efficient general lighting as well as specific task lighting for the instructor, teaching area and demonstration wall is included. A campus standard audiovisual system (LCD video projector, document camera, DVD/CD player and program audio) will be provided. All of the audiovisual devices will be contained in an instructor station located at the front of the classroom. Infrastructure to provide lecture capture capabilities is included with the upgraded audiovisual system. A standardized control program will be provided and installed by the University's Classroom Media Support staff. All audiovisual equipment and lighting will be controlled by a user-friendly touch screen panel mounted on top of the instructor station. Although the facility has wireless networking capabilities, additional access points may be provided by the University's Division of Information Technology during these renovations.

Floor Plan: *Attach a building floor plan (PDF format) for each project that provides: (1) room dimensions; (2) ceiling height; (3) wall changes, if any; (4) identification of front/teaching wall; (5) placement of teaching station/electronics; (6) door locations; (7) ADA path of travel; (8) seating arrangement, if known; and (9) any other known attributes.*

Items #1-9 attached

Data Connection: *Describe existing/proposed data connections other than at the front of the classroom. Include wireless if equipment purchase is part of the project.*

Add data connections at the proposed Instructor Station in addition to the current wireless coverage throughout the facility.

Technology Level: 2301, 2425
Technology Level: 3425

Current: 1
Current: 3

Proposed: Active Learning Classroom
Proposed: Active Learning Classroom

Technology Level Definitions:

- **Level 1:** Basic classroom containing chalkboard or marker board; projection screen; overhead projector; lighting fixtures switched in groups; darkening shades; voice and data connections; podium, cart or lectern. These rooms are “portable ready” implying that any combination of portable equipment could be brought into the room.
- **Level 2:** Classroom with all the features of Level 1 plus traditional instructional technology, such as VCR, TV, sound system, DVD player, CD player, etc. Room lighting shall be appropriate for note-taking during video presentations.
- **Level 3:** Classrooms with all the features of Level 2 plus video/data projector and a teaching station with nearby access to controls for all A/V equipment, room lighting and room sound system. Wired network connectivity at each fixed seat or fixed table student station may be included in this category.
- **Level 3+:** Classrooms with all the features of Level 3 plus a teaching station with an electronic touch screen for control of all A/V and room functions. Can also include digital recording capabilities to record lectures for selective viewing at a later time.
- **Distance Learning Level:** Classrooms equipped with a two-way video system to support distance education.
- **Active Learning Classroom:** Classrooms furnished and equipped with multiple computerized learning pods and a portable computerized teaching station that enables the instructor to electronically connect to any/all of the connected learning pods.

Room Type:

Current: B Proposed: A

Classrooms are categorized as Type A (functional) or Type B (substandard) instructional spaces. Reasoning for identifying an instructional space as a Type B may be based on a single issue or any combination of issues as identified below. Check the first column of all appropriate codes that apply to current conditions; check the second column if the proposal will correct the issue.

Room Type B Codes:

<u> </u>	<u> </u>	Using the 25 SF/student standard, classroom capacity is reduced to an unusable size
<u> </u>	<u> </u>	Poor aspect ratio
<u> x</u>	<u> x</u>	Insufficient ceiling height
<u> x</u>	<u> x</u>	Irregular classroom shape or poor configuration
<u> x</u>	<u> x</u>	Column or other sight-line interference
<u> x</u>	<u> x</u>	Inadequate exiting for existing room capacity
<u> x</u>	<u> x</u>	Inadequate access for those with disabilities
<u> x</u>	<u> x</u>	HVAC system deficiencies
<u> </u>	<u> </u>	Below-grade moisture or dampness problems
<u> </u>	<u> </u>	Noise or vibration from adjacent spaces
<u> x</u>	<u> x</u>	Inadequate space available for instructor console
<u> </u>	<u> </u>	Other (please define)

Seating Capacity: 2301	Current <u>0</u>	Proposed <u>48</u>
Seating Capacity: 2425	Current <u>20</u>	Proposed <u>48</u>
Seating Capacity: 3425	Current <u>48</u>	Proposed <u>48</u>

Existing Seating Arrangement

Fixed?	Yes _____	No _____
Tablet Arms? (3425 only)	Yes <u>x</u>	No _____
Fixed Tables?	Yes _____	No _____
Non-Fixed Tables?	Yes <u>x</u>	No _____

Reuse Existing? Yes _____ No x

Proposed Seating Arrangement (if not reusing existing)

Fixed?	Yes _____	No _____
Tablet Arms?	Yes <u>x</u>	No _____
Fixed Tables?	Yes _____	No _____
Non-Fixed Tables? (2425 only)	Yes <u>x</u>	No _____

Existing Floor

Tiered? Yes _____ No x

Proposed Floor

Tiered? Yes _____ No x

AV Consultant:

Yes _____ No x

(If "Yes" is checked, indicate why an AV consultant is needed.)

Link to Classroom Demand Analysis:

Form (to be updated by 12/1/2011) found at:

http://www.wisconsin.edu/capbud/documents/planning/planguide/CPDP/Documents/Support_Docs/CPDP_SD_ClsrmDemandAnnlRpt.xls

Updated Demand Analysis attached. Please note that UW-Madison is currently reviewing classroom utilization data. Classroom efficiency recommendations will be made at a later date.

Project Budget: *Use project budget worksheet provided separately.*

Attached.

Project Schedule:

Classroom will be off line from January 2013 to August 15, 2013

	(Month/Year)
Bid Date:	<u>January 2013</u>
Construction Start:	<u>March 2013</u>
Completion Date:	<u>August 2013</u>

Please complete the following:

- | | YES | NO | N/A |
|--|--------------------------|-------------------------------------|--------------------------|
| 1. <i>Are hazardous materials involved (i.e., asbestos, lead paint, PCB ballasts, etc.)? If yes, identify the materials and indicate how they will be handled.</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
-
-

- | | YES | NO | N/A |
|--|--------------------------|-------------------------------------|--------------------------|
| 2. <i>Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
-
-

- | | YES | NO | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 3. <i>Will the construction work be limited to a particular season or window of opportunity? If yes, explain the limitations and provide proposed resolution.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Classroom renovation to occur the spring and summer semesters with an August 2013 completion date, in time for a fall semester occupancy. Adjacent classrooms within the facility will be used during construction for spring classes and exams (January – May). It is necessary to minimize disruption to the surrounding areas during this portion of the project.

Required Attachments being submitted with this proposal (check appropriate boxes):

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Supporting Budget Information (DSF Budget Worksheet, consultant's estimate, etc.) |
| <input checked="" type="checkbox"/> | Itemized Movable Equipment List |
| <input checked="" type="checkbox"/> | Itemized Fixed Equipment List |
| <input checked="" type="checkbox"/> | Floor Plan (PDF format) |

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