

# Instructional Space Project Request

2015-17 Biennium

<b><u>Agency</u></b>	<b><u>Institution</u></b>	<b><u>Building No.</u></b>	<b><u>Building Name</u></b>	
University of Wisconsin	Whitewater	285-0N-0004	Center of the Arts Building	
<b><u>Location ID</u></b>	CA0035		<b><u>Scheduled Hours/Week</u></b>	17
<b><u>Project Title</u></b>	Printmaking Lab Renovation and Expansion			<b><u>Priority</u></b>
<b><u>Project Number:</u></b>	16F2F			

## **Project Intent**

This renovation project will expand and renovate the existing Printmaking Studio Lab to: co-locate several printing processes into one large multi-use studio style lab, thus improving efficiencies of resources and scheduling, as well as alleviating space issues in other non-print labs where equipment is being stored. This project will also improve workflow, safety and accessibility within the lab for all students, including those with disabilities, by adjusting the spacing, arrangement and heights of tanks, tables, sinks and other essential equipment for the printmaking process. Ventilation and lighting will be improved to meet current safety requirements for printing processes per accreditation, ASHRAE, OSHA, and EPA requirements. Better ventilation and exhaust will provide healthier indoor air quality by decreasing the level of fumes in the spaces from various solvents used in printing, and afford a better drying environment for in-progress and finished pieces. Technology within the lab will be improved by expanding and isolating the digital printmaking area and the program's new wide-format inkjet printer.

## **Project Description**

The work will include expansion into an adjacent storage area (1,024 GSF) and hall area (103 GSF) and complete renovation and reconfiguration of the existing print lab, acid room and storage areas (1,882 GSF). This provides for a total final lab area of 2,927 GSF. Reconfiguration will make efficient use of the lab for: five (5) presses and associated prep and rinse areas; 18 student instructional/work areas; a clean digital printmaking area which will feature 4 designated computer workstations, a wide-format inkjet printer, and relocation of the archival paper flat-file storage; student material storage lockers and lab material storage. Upgrading of instructional technology at a Level 3 will also be part of this project with new teaching station, computer, projector, screen and audio system.

Very specific and potentially separated HVAC systems required by the different processes that meet NASAD, ASHRAE and OSHA requirements will be part of the work. The ventilation needs for this lab are extremely complex, considering the safety and health hazards that can be present when etching and printing with chemicals and solvents. The lab is located at the lower (basement) level of the building but shares an exterior wall, where additional penetrations for ventilation and natural daylighting can occur. The HVAC system in the adjoining costume storage area also needs to be reviewed and modified as part of this project, since space is being removed from the storage area to be utilized for the printmaking lab. It appears that the current system for the two spaces are connected and thus is part of the inadequate ventilation problem.

New lighting and redistributed power/data to match reconfigured layout and equipment will also be part of the scope of this project. There is also a desire to bring natural daylight into the space.

Emergency shower/eyewash station(s) will need to be provided for each separated process area that requires one. Printmaking and Book Arts require a minimum of four (4) special sinks with special drain requirements and Lithography requires minimum one (1) graining sink, also with special drain requirements. All printing process required general sinks for hand-washing and general (non-toxic) cleanup. The lab will also need a satellite accumulation area for containment of acid waste, solvent containing waste and water-based waste

Replacement of outdated and unsafe equipment is part of the scope of this project, including but not limited to: adjustable height tables, a new larger capacity etching press, etching tanks, rinse tanks, brayers, paper cutters, digital print equipment and computers, small CNC machine for type creation etc.

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### **Project Justification**

#### **Health, Safety and Accessibility Issues**

Currently, the lab's most severe problem, besides lack of adequate space, is the poor and improper ventilation for the functions housed within. Air supply for this lab is provided through an adjacent storage area that is so over-packed with costumes the air cannot circulate properly, thus resulting in damp, musty conditions. The odors created in the storage room are then transferred into the printmaking lab with minimal ventilation rates, mixing with the fumes from the various printmaking processes and creating an unhealthy and uncomfortable environment. In addition, the costumes stored in the adjacent room are at risk for mold and mildew contamination unless the proper air circulation can be provided and the density of the collection reduced.

Another critical issue within the lab is the need to improve student/faculty "workflow safety" and accessibility. Existing presses, racks, storage cabinets, printers, workbenches, and workstations have minimal space between them. Faculty must constantly monitor the floor footprint and adjust the equipment, storage and work bench configuration to accommodate the particular needs of the "sub-discipline" being taught (Screenprinting, Relief, Etching, Bookarts, Digital/Photo Printing), remaining vigilant to minimize trips, falls, knocks, jabs and pokes). Currently, it is next to impossible for students in wheelchairs to safely navigate the space. Furthermore, the lab's sinks, workbenches, UV-exposure unit, etching presses, inking stations, ferric chloride tank, solvent tank, and screenprinting washout unit are not wheelchair accessible.

Access into the room is through a single door tucked into a hallway niche near a ramp. Visibility for traffic coming and going from the room is poor and the area gets congested. A single door also is problematic when trying to move large pieces of equipment and supplies in and out of the room. Sometimes the letterpress is moved to just outside the lab to provide much needed space within the lab.

It is to be noted, that, although the recent on-site National Association of Schools of Art and Design (NASAD) accreditation team was impressed by the quality of artwork produced in the Printmaking Program, they remarked upon the "stretched-at-the-seams" quality of the learning environment within the lab. They critiqued the facility's lack of maneuverability, accessibility and separation of spaces for non-compatible processes.

#### **Impact to program issues**

Due to inadequate space within the lab, only three courses of printmaking can be taught in the same semester. The "sub-disciplines" (Screenprinting, Relief, Etching, Bookarts, Digital/Photo Printing), must be taught on a rotating basis, thus making it difficult for students to complete required and desired courses within a standard 4-year enrollment. The lithograph press is not part of the current curriculum (except during summers) because it does not have a designated lab space with proper ventilation. The lithograph press is currently housed in a painting/drawing studio on the second level of the building and can only be used when the room is not scheduled for instruction or supplemental studio time. This has become problematic for the painting/drawing disciplines since the lithograph is taking up essential lab spaces needed for that curriculum.

The lab is currently scheduled for 17 hours/week in the fall semester and 22.5 hours/week in the spring semester. Additional space and a more efficient layout will allow additional printmaking courses to be taught and the utilization could increase to 39.5 hours/week.

This proposal also addresses the need to isolate the program's expanding digital printmaking area from the more traditional curriculum's variably chemical, dusty, wet, and corrosive processes, yet still remain adjacent. The proposed plan seeks to create a clean digital printmaking area which will feature designated space for advanced students, improved integration of the program's new wide-format inkjet printer, additional computer stations (for a total of 4 Apple computers), and relocation of the archival paper flat-file storage.

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### Project Budget

Construction Cost:		\$	
A/E Design Fees:	8.00%	\$	
Other Fees:	0.00%	\$	
DFD Mgmt Fees:	4.00%	\$	
Contingency:	15.00%	\$	
Movable Equipment:		\$	
<b>TOTAL:</b>		<b>\$</b>	<b>1,094,000</b>

### Funding Source

General Fund Supported Borrowing	\$	1,094,000
Institutional Funds (GPR)	\$	0
Institutional Funds (PR)	\$	0
Gifts	\$	0
Grants	\$	0
Other	\$	0
<b>TOTAL:</b>	<b>\$</b>	<b>1,094,000</b>

### Consultant Requirements

Consultants should have specific expertise and experience in the design and coordination of university level art labs, specifically printmaking labs, and department design experience as part of a design team. The consultant should also have as part of the design team, engineers with knowledge and experience of ASHRAE, OSHA and EPA requirements as related specifically to fine arts printmaking labs, with separated systems for each print process that requires special ventilation; and general instructional area. A structural engineer should also be part of the team to assess feasibility of ventilation and light wells in exterior foundation wall. Work includes site surveys, acquiring field data, and verifying as-built conditions to assure accurate development of program needs, design and bidding documents, and production of necessary design and bidding documents. Consultants should indicate specific projects from past experience (including size, cost, and completion date) in their letter of interest and when known, include proposed consulting partners and specialty consultants.

An audio-visual consultant is not required for this project – campus prefers that campus IT staff assist the design team with equipment selection and layout.

### Project Schedule

Bid Opening: 01/2018  
 Construction Start: 05/2018  
 Substantial Completion: 08/2018

### Project Contact

Contact Name: Tami McCullough  
 Email: mccullot@uww.edu  
 Telephone: 262-472-6704

### Project Considerations

- |  | Y                                   | N                        |
|--|-------------------------------------|--------------------------|
| 1. Are hazardous materials involved? If yes, what materials are involved and how will they be handled?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Required hazardous materials abatement has been included in the estimated project schedule and project budget. Comprehensive environmental survey inventory data <u>is</u> available on Wisconsin's Asbestos & Lead Management System (WALMS) <a href="http://walms.doa.state.wi.us/">http://walms.doa.state.wi.us/</a> , but should also be confirmed through field verification. |                                     |                          |
| Considering the nature of the materials used in this lab and the presence of lead type, it should be assumed that lead dust and lead contaminated furniture and hvac systems could be present.   |                                     |                          |
| 2. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Separation of the ventilation system and potentially the power systems within this lab, may require building shut-down to disconnect and reconnect as required. Plumbing may also need to be temporarily shut-down if separate shut-off valves do not exist. Shut off valves should be included in this project if they do not exist.  |                                     |                          |
| 3. Will the project impact the heating plant, primary electrical system, or utility capacities supplying the building, and/or within the building? If yes, to what extent?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| See response for #2 above.   |                                     |                          |

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4. Will the construction work be limited to a particular season or window of opportunity?    
If yes, explain the limitations and provide proposed resolution.

Exterior and prep work can be done during semester, but the actual work will require the lab to be shut down and vacated. Since it is a core element to the art curriculum and another printmaking lab is not available, it cannot be taken offline during the academic year. This should be done during summer months of Mid-May through August.