Instructional Space Project Request
2015-17 Biennium

Agency	Institution	Building No.	Building Name
University of Wisconsin	Oshkosh	285-0F-0019	Arts and Communications Center

Location ID S024A, S024B, and S205 **Scheduled Hours/Week** 18-42

Project Title Art Department Metal Lab Exhaust System Upgrade & Digital Graphics Lab **Priority** 10&11

Project Request

Select A/E to prepare a preliminary design and cost estimate working with the campus user group and then continue to 100% design and construction administration services for this project.

Project Intent

The project will provide an appropriate exhaust system with controls, exhaust ductwork, work stations and lighting. Creation of a computer studio space available for both the implementation of virtual media and digital photography teaching needs.

Project Description

Metal Lab Exhaust System Upgrade:
Provide a new 8800 cfm exhaust fan with variable frequency drive. This fan will be controlled via switches that automatically control the cfm of the fan via blast gates no matter if one or all work areas are in use. The fan will be located at the roof rather than near the room to pull the air from the lab rather than pushing the air up the building ductwork and potentially creating a leaking condition, contaminating other areas of the building. Provide new work table in the center of room of casting/soldering with attached exhaust ductwork to provide tabletop horizontal draw exhaust. Provide new additional overhead hood in casting/soldering room on north wall. Relocate and lower hood and kilns under existing hood on west wall of casting/soldering to allow a greater exhaust of heat during the kiln usage. Provide new lighting under hood in casting/soldering. Relocate and lower existing hood and provide new additional hood next to it over sink on north wall of buffing. Provide new table top exhaust on south wall of buffing. Relocate existing buffer on south wall of buffing and provide new exhaust ductwork system.

Digital Graphics Lab:
Expand current computer lab (Room S201 and S201A) to create a mirrored lab space in Rooms S203 and S205 with part of former S201A as a connecting room for black and white printers. This would provide two instructional spaces and add 20 computer stations. Rooms S206 and S207 will be configured to house specialized fine art printing equipment and office space for the computer lab technician. Demolition includes the removal of concrete block walls, doors/frames, ceilings, carpet, electrical outlets/switches, thermostats and asbestos abatement of floor tile. Remodeling includes the relocation of an electrical panel to S203A; adding circuits (9) and data (24) for the computer stations in S205 and printers in S207; changes to the existing air handling system for S201 to provide additional air flow for the new lab; installing a supplemental cooling unit in the new lab; installation of new carpet/base, ceiling and direct/indirect lighting; new screen on E wall; install a card reader system; install equipment and associated conduit and wiring for AV system; relocate thermostat from S203 and rewire to control multiple booster coils. Painting and other miscellaneous work necessary to fully complete the total scope of the project.

Equipment for this room consists of: AV equipment package, powered computer tables, student computer chairs, and instructor's stool.

Project Justification

Metal Lab Exhaust System Upgrade:
All of the procedures in the casting/soldering and buffing rooms require removal of particulate material, chemical gases and heat from the two spaces. The current systems are inadequate due to a shortage of exhaust cfm, location/sizes of hoods and type of air draw off of student work whether overhead hoods or tabletop horizontal draw. This puts students' safety in jeopardy from inhaling buffing dust with chemicals on them, toxic chemicals used in art production, cleaning materials and heat build-up from the kiln use. The exhaust control systems must be separated from the lighting control and the variable

frequency drive will provide a safe constant level of exhaust and save energy when lesser number of students are using the various lab stations. This is opposed to the current full-on system when the light switch is turned on whether there is one person in the labs or many.

Digital Graphics Lab:
A critical lack in computer studio lab space has become an urgent dilemma in the Art Department curriculum. In order to make the art curriculum competitive and relevant in the 21st century, it is necessary to fully integrate technology into all areas of the Art Department program, to provide our faculty with the resources and our art students with the facilities they need to incorporate digital technologies into their art practice.

At present, the art department has one 20-station computer lab that is barely able to meet the scheduling needs of the graphic design area. At the same time, there are no facilities for teaching interactive media arts or digital photography and there is no computer studio facility for students in 2-D and 3-D studio or art education emphases to be able integrate digital technology into their traditional art practice.

Project Budget

Construction Cost:		$	
A/E Design Fees:	8.00%	$	
Other Fees:	0.00%	$	
DFD Mgmt Fees:	4.00%	$	
Contingency:	10.00%	$	
Movable Equipment:		$	
TOTAL:		**$**	**404,000**

Funding Source

General Fund Supported Borrowing	$	404,000
Institutional Funds (GPR)	$	0
Institutional Funds (PR)	$	0
Gifts	$	0
Grants	$	0
Other	$	0
TOTAL:	**$**	**404,000**

Consultant Requirements

Consultants should have specific expertise and experience in the design and coordination of exhaust systems for higher education instructional metals labs and digital media labs as part of a design team. Work includes site surveys, acquiring field data, and verifying as-built conditions to assure accurate development of 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 required? No

Project Schedule

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

Project Contact

Contact Name:	JoAnn Rife
Email:	rife@uwosh.edu
Telephone:	920-424-2438

Project Considerations

		Y	N
1.	Are hazardous materials involved? If yes, what materials are involved and how will they be handled?	☐	☒
	Hazardous materials abatement is not anticipated on this project. Comprehensive environmental survey inventory data is available on Wisconsin's Asbestos & Lead Management System (WALMS) <http://walms.doa.state.wi.us/>.		
2.	Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?	☒	☐
	Minimal while under renovation as exhaust is reconfigured and tested after completion. Notice will need to be provided to building occupants for any outages.		

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? ☐ ☒

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

Metal Lab Exhaust System Upgrade: The demolition and construction phases need to be completed over the summer so as to not impede the instructional use of the lab during fall and spring semesters.
Digital Graphics Lab: Campus prefers for the demolition and construction to occur outside of the fall and spring semester to minimize the inpact to instructional needs since these areas are heavily used during the semester.