

UNIVERSITY OF LOUISIANA AT LAFAYETTE

STEP Committee

Technology Fee Application

**Technology Enhancement for Social Distance
Teaching in Studio/Lab**

Title

Professor John Gargano

Name of Submitter
(Faculty or Staff Only)

Department of Visual Arts

Organization

Title: Technology Enhancement for Social Distance Date: 07/18/2020
 Teaching in Studio/Lab
Name (Contact Person): Professor John Gargano
Address: Fletcher Hall Room 310
Phone Number: 2-5330 Email: gargano99@lousiana.edu
Department/College/Org: Department of Visual Arts / COA

ABSTRACT (250 words or less):

This request is for video imaging equipment and projection to insure social distancing is maintained in the ceramics studio in Fletcher Hall. All ceramics course are hands on and process oriented art classes with an introductory, intermediate and advanced course. The equipment will be used during demonstrations to capture and project the professor's demonstrations that normally require students to huddle around the professor to see the material and techniques being utilized. Using two cameras that can be positioned above using the overhead stand and the side view camera that can clamp to tables and other studio equipment will allow the appropriate views to be experienced by the students as they maintain social distancing. The video control unit will allow seamless transition between camera views and provide "picture in picture" display as well. The cameras and microphone will feed into a recording deck that create video files for upload to moodle. In the event we move to a completely remote situation, this system will allow remote instruction in video format for all demonstrations. The requested projector will provide a dedicated projection unit for the studio.

Instruction Sheet:

1. Complete the cover page.
2. Complete the abstract page.
3. Give a description of your proposal in 12 pt. font, single spaced, addressing the following points:

- a. **Purpose of grant and impact to student body as a whole**

The purpose of this proposal is to create a safe teaching and learning environment in the ceramics studio/lab that relies on students and faculty to be in close proximity when demonstrations are conducted. These interactions occur on a daily basis and demonstrations with materials, tools and equipment are the “life blood” of a heavy process oriented medium. In order to observe social distancing in the studio, students must remain at their designated positions which will inhibit their ability see the necessary techniques and use of tools and equipment. The requested equipment will allow the professor and students to maintain a safe distance during demonstrations through live video projection. Utilizing two cameras, an overhead view and side view, with the live stream switcher will create a seamless video that can switch between views as necessary with the ability to have picture in picture imaging. This is important as students need to view the professors hands in action and the effects the tools and techniques have on the clay.

In addition, the request for a Blackmagic Design HyperDeck Studio Mini and microphone will allow the recording of the video feed. This will provide immediate support to students as video can be uploaded to Moodle. This is extremely important if students need to work remotely in the event of quarantine. If courses must transition to remote status, this recording platform will allow necessary demonstrations to be recorded and posted on Moodle for students.

- b. **Projected lifetime of enhancement**

The equipment requested in the enhancement will be functional for 5-8 years and may easily exceed that projection.

- c. **Person(s) responsible for**

- i. **Implementation, Installation, Maintenance & Operation**

Professor John Gargano will be in charge of all aspects of implementation, installation, maintenance and operation of this equipment. Professor Gargano has over 20 years of experience with professional audio and video. He is proficient with video editing software and has access to this software.

D. The narrative of the proposal must include the purpose and justification for each of the items listed in the Budget Proposal.

1. AIDA Imaging Full HD HDMI Camera : The two cameras are ultracompact and will capture video of the demonstrations. These cameras are discrete with a small footprint allowing the professor to perform the necessary techniques and processes without physical interference.
2. Blackmagic Design ATEM Mini HDMI Live Stream Switcher: This unit allows video feed to be seamlessly switched between multiple cameras views with the ability to keep picture in picture projection. This is extremely important for students to see the professors hands and the overhead view of the demonstration. Students and the professor routinely move around during demonstrations to provide visual access to the three dimensional ceramic objects and the tools and equipment being used.
3. Blackmagic Design HyperDeck Studio Mini: This unit records the live stream video to SD memory cards. Interchangeable SD cards provide unlimited recording flexibility in a compact user friendly unit.
4. Epson PowerLite S39 3300-Lumen SVGA 3LCD Projector: This unit will provide dedicated projection of the video captured and routed through the Switcher and Hyperdeck recording unit. It has appropriate lumen value to provide crisp brilliant video in an ambient lit environment.
5. Marshall Electronics Heavy-Duty C-Clamp: This clamp will allow one of the video cameras to be mounted from a variety of surfaces including tables, carts and equipment to provide video capture of the professors hands.
6. Glide Gear OH 100 Adjustable Overhead Camera Platform: This piece of equipment is essential for the second camera providing an overhead view of the demonstration without physical interference. This device is portable and can be utilized in all aspects of instruction with materials and equipment.
7. Pearstone HDA-115 High-Speed HDMI Cable with Ethernet (Black, 15'): These cables allow the HDMI video signal to transfer between the equipment.
8. Blackmagic Design Micro Converter HDMI to SDI: This unit allows conversion of the HDMI signal from the Switcher to SDI format for connection to the Blackmagic Design HyperDeck Studio Mini.
9. Pearstone 6' SDI Video Cable - BNC to BNC: This cable connects the converted HDMI signal to the HyperDeck.
10. Rode Lavalier GO Omnidirectional Lavalier Microphone: This microphone provides a discrete source for recording the professors dialogue and instruction.
11. SanDisk 256GB Extreme PRO UHS-I SDXC Memory Card: These memory cards are compatible with the Hyperdeck for recording the video.

4. Budget Proposal

Equipment

1. (2) AIDA Imaging Full HD HDMI Camera	\$280/ea	\$460.00
2. (1) Blackmagic Design ATEM Mini HDMI Live Stream Switcher		\$295.00
3. (1) Blackmagic Design HyperDeck Studio Mini		\$695.00
4. (1) Epson PowerLite S39 3300-Lumen SVGA 3LCD Projector		\$399.00
5. (1) Marshall Electronics Heavy-Duty C-Clamp		\$ 39.99
6. (1) Glide Gear OH 100 Adjustable Overhead Camera Platform		\$199.99
7. (3) Pearstone HDA-115 High-Speed HDMI Cable with Ethernet (Black, 15')		\$ 44.85
8. (1) Blackmagic Design Micro Converter HDMI to SDI		\$ 39.00
9. (1) Pearstone 6' SDI Video Cable - BNC to BNC		\$ 9.95
10. (1) Rode Lavalier GO Omnidirectional Lavalier Microphone		\$ 79.00
11. (2) SanDisk 256GB Extreme PRO UHS-I SDXC Memory Card	\$69.99/ea	\$139.98

Software \$

Supplies \$

Maintenance \$

Personnel \$

Other \$

TOTAL: **\$2401.76**

5. Additional Information

6. Previous Awarded STEP grants

Professor Gargano was awarded three STEP grants on the 2017 cycle titled “Ceramics Decal Printer”, “Pugmill for Ceramics Studio” and “Computer Controlled Test Kiln”. All grants were successfully implemented into the curriculum and continue to help foster creativity and expand our student’s knowledge base.