

# UNIVERSITY OF LOUISIANA AT LAFAYETTE

STEP Committee

Technology Fee Application

**FGM 208 Active Learning Classroom Enhancement**

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Title

**B.I. Moody III College of Business Administration**

Phuc Tran, ISM Assistant Manager

Daniel Hulin, Graduate Assistant

Dr. Lise Anne Slatten, Interim Associate Dean for Academic Programs

Heather DeValcourt, Director of Marketing & Outreach

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Name of Submitter

**B.I. Moody III College of Business Administration (MCOBA)**

**Information Systems & Multimedia Laboratories (ISM)**

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Organization

Title: FGM 208 Active Learning Classroom Enhancement Date: January 2019  
Name (Contact Person): Phuc Tran  
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Department/College/Org: B.I. Moody III College of Business Administration (MCOBA)  
Information Systems & Multimedia Laboratories (ISM)

**ABSTRACT (250 words or less):**

This grant proposal is requesting support to equip FG Mouton room 208 with the technology and furnishings necessary to create an active learning classroom that promotes a collaborative and engaging environment for both instructors and students. FGM 208 has an over fifteen year-old antiquated projector, seven year-old computer, no document camera, and forty (40) antiquated desks which hinder instructional quality, student collaboration, use of the room for courses needing technology, and use of the room for special programming (i.e. sales competition).

The Moody College of Business Administration's Office of Information Systems & Multimedia Laboratories (ISM) is requesting to upgrade this room with technological improvements including one (1) new computer, one (1) ceiling-mounted projector, one (1) electric projector screen, one (1) document camera, one (1) SMART podium, forty two (42) adaptable and mobile tablet-arm chairs. These enhancements support the University's values of collaboration, intellectual curiosity, and creativity and would have a substantial impact on the experience for all faculty and students utilizing this classroom across multiple colleges and disciplines.

The funding support of this request is in accordance with the University's vision of making every classroom on campus a SMART classroom. If funded, the upgrades will serve students, faculty, and staff from all disciplines by equipping the classroom with the technology needed to meet their expectations.

**Purpose of Grant and Impact to Student Body as a Whole**

The need for an active learning classroom with updated technology is a necessity for our faculty to incorporate teaching strategies beyond traditional lecture. Our goal is to create a flexible classroom environment that supports students in the many ways they learn. The active learning concept promotes the opportunity for small group collaboration on problem-solving, team-based projects and discussions. An active learning classroom environment promotes student-centered learning and instructor engagement. Implementation of a flexible learning space that combines classroom design, technology, and furniture can improve the quality of teaching and learning (Persk, Orr and Alomari, 2016).

Most students today have grown up using technology. The adoption of digital technology has transformed teaching and all classroom engagement. This classroom is currently not being used to its full capacity because it lacks the necessary up-to-date modern equipment for faculty to teach. Technology and flexible workspaces in the classroom make it feasible for students to collaborate with one another and with their instructors. It also helps the instructor improve their teaching process when access to flexible, friendly learning spaces are available.

A study published in the peer-reviewed journal *Planning for Higher Education* noted “students and faculty were asked to compare their experience in traditionally-furnished classrooms with an environment designed to provide more flexibility in learning. The results showed that classrooms designed for active learning—i.e., where physical space supports a focus on engaging experiences for students and faculty—had a statistically significant effect on student engagement.” (Bergsagel, 2015).

In 2016, ISM conducted a survey of technology needs in the classroom - the results were overwhelming and clear, showing just how necessary a computer, overhead projector, and document camera are to the instructors. Empirical evidence shows a marked improvement in student engagement and success when the necessary technology is present. According to this survey, 88% of faculty members utilize document cameras for effective teaching, especially when they demonstrate complex problems for the students to practice. However, only 46% of classrooms in FG Mouton have document cameras. The data is concise - when instructors are able to teach utilizing technology, they are most effective and students are more engaged and actively participating in the class.

Yale University’s Poorvue Center for Teaching and Learning website <https://poorvucenter.yale.edu/ClassroomSeatingArrangements> emphasizes best practices. One report states “the physical setup of chairs, tables, and technology in a classroom can significantly influence learning. Instructional communication theory suggests that seating arrangements can impact how the instructor communicates with students and how the students interact with one another, impacting engagement, motivation, and focus” (McCorskey and McVetta, 1978). More recent research also suggests that students tend to prefer more flexible seating arrangements (Harvey and Kenyon, 2013).

The requested technology would allow instructors to teach using graphs, PowerPoint slides, videos, and simulations. Some disciplines, such as accounting, also have a need for a document camera. These instructors need equipment that allows them to walk their students through the case scenarios that they are discussing when teaching problem solving. This technology is also paramount for students with a visual learning style. This classroom lacks vital technology components for effective instruction thereby placing constraints on classroom usability.

This classroom was recently utilized during the MCOBA 9<sup>th</sup> annual student sales competition in Fall 2018. We hosted teams from LSU, Nicholls State and Southeastern along with more than 45 local sales professionals. Judges and the audience watched the first round of competition via live video feed in this room. Unfortunately, the audiovisual quality and classroom furniture were not conducive to hosting community partners for this special event. This did not display our University as having modern learning environments.

FG Mouton 208 accommodates up to 40 students. Instructors from several different disciplines teach in FGM classrooms, so this upgrade would create a supportive collaborative learning environment for a wide array of students, not just limited to MCOBA students. Other classes taught in FGM include math, counseling, communications, educational foundations and leadership, political science, psychology, and physics.

Improved technology also promotes better testing and allows for better assessment. Such testing may be using easier standardized testing methods or through immediate in-class answer systems (response clickers). Using these formats, teachers can quickly see which students require more assistance, and instruction can be tailored to the individual needs of the students.

### **Existing Issues**

FGM 208 currently includes an outdated computer, antiquated projector, manual projector screen, desktop audio speakers, and forty (40) antiquated desks.

- **Computer:** The computer in FGM 208 is very old (installed at least 7 years ago) and has dissuaded faculty members from installing more modern and current versions of needed instructional software. Not being able to teach using current software simultaneously hinders the teachers and negatively affects the learning of students. There have been multiple complaints received about the slow PC in this classroom.
- **Projector:** FGM 208 contains an older projector (estimated age is 15 years old) causing multiple maintenance issues. For example, the light bulb dying out at a highly accelerated rate which takes additional personnel time to fix and increases bulb replacement costs. Additionally, the image projected is of poor quality making it difficult for students to read what is on the screen. The culmination of these preventable issues take away from class time and causes quite the disruption if the teacher is unable to use the projector.
- **Manual Projector Screen:** Someone must stand on a chair to attempt to pull down the manual screen. This creates a safety concern and disrupts classroom learning.
- **Audio/Speakers:** Existing speakers are outdated desktop speakers that not built into the SMART package. They provide limited volume and low quality.
- **Student Desks:** The existing desks do not support a flexible, active learning classroom environment or promote inclusion of students with learning and/or physical disabilities. The working surface of the antiquated desks does not support a student's use of laptop computers or mobile devices. This situation affects their ability to utilize the electronic resources the instructor has provided which impacts learning and engagement.

### **Funding Objectives**

- Upgrade technology to support current teaching methods and inclusion of students who are using their personal laptop computers or mobile devices.
- Broaden instructor's ability to adjust the room environment to suit the flow of learning throughout a class period (i.e. students can work in groups/pods).
- Allow instructors and students a high degree of control over their interactions.
- Improve instructional quality and enrich student-learning experiences.
- Increase the opportunity for students to engage and collaborate with each other.
- Foster communication and collaboration skills.
- Provide accessibility to students with learning and/or physical disabilities.

### **Proposed Active Learning Classroom Enhancements**

- Implement 21<sup>st</sup> century adaptable and mobile tablet-arm chair seating that supports laptop computer/mobile devices, left/right hand users, varying body types, students with learning and/or physical disabilities, and adaptable positioning to create different classroom setup opportunities.

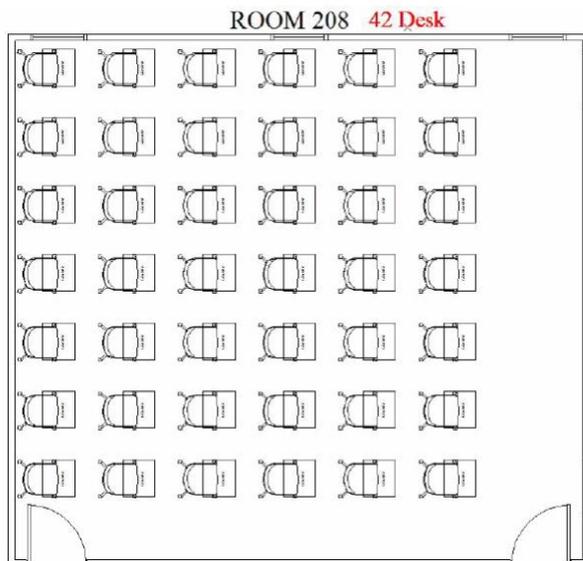
- Replace the existing technology with modern projector, audio, computer, and electric projector screen.
- Add a SMART podium and document cameral to the classroom technology suite.

While the requested technological equipment is the standard setup for a SMART classroom, the enhancement of FGM 208 into an active learning classroom will provide instructors the resources needed to promote student engagement and collaboration. If this grant request receives funding, it will enhance the College of Business and the University by improving student-centered learning experience. The funding of this grant would also put us one-step closer to fulfilling the University’s vision of making every classroom on campus a SMART classroom.

**Existing FGM 208:** Antiquated seven-year-old computer, fifteen-year-old projector, manual pull-down projector screen, and forty (40) antiquated desks.



**Proposed FGM 208 Active Learning Classroom:** New multimedia podium, computer, document camera, projector, electric projector screen, and forty-two (42) KI Strive Learn2 tablet-arm chairs (on casters with flat bottom rack).





### **Projected Lifetime of Enhancement**

- Technology: Expected to have a five-year life span.
- Furniture: 15 year limited warranty.

### **Responsibilities**

The person responsible for implementation and oversight of this project is Phuc Tran, MCOBA ISM Assistant Manager. Responsibilities include:

- a. Implementation
  - MCOBA ISM
- b. Installation
  - Technology: A state contractor for SMART technology installation, assisted by MCOBA ISM will install the projector, screen, podium and its components. MCOBA ISM will install the PC.
  - Furniture: General Office Supply
- c. Maintenance
  - MCOBA ISM: Provide ongoing maintenance and will immediately troubleshoot any problems that may occur.
- d. Operation
  - MCOBA ISM
- e. Training (with qualifications)
  - MCOBA ISM will train faculty and staff assigned to use the room.

MCOBA ISM currently maintains over 100 faculty and staff PCs, 8 classrooms in Moody Hall and 15 classrooms in FG Mouton that are enhanced with technology so the department is very familiar with the functionality of the equipment requested. MCOBA ISM has adequate staff capacity to handle the upkeep and maintenance of the equipment requested in this grant proposal.

## Budget Proposal

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1.	<b>Equipment</b>	<b>\$34,660.91</b>
	a. Technology -	\$17,036.45
	b. Furniture -	\$17,624.46
2.	<b>Software</b>	<b>\$0</b>
3.	<b>Supplies</b>	<b>\$0</b>
4.	<b>Maintenance</b>	<b>\$0</b>
5.	<b>Personnel</b>	<b>\$0</b>
6.	<b>Other</b>	<b>\$4,760</b> (technology installation/labor)
<b>TOTAL:</b>		<b>\$39,420.91</b>

## Budget Details

Description	Part #	Manufacturer	Price Each	Qty.	Total
Optiplex 3040	UL Lafayette PC Depot	Dell	\$940.00	1	\$940.00
3500 Lumen Lampless Projector	PT-RW330U	Panasonic	\$2,609.33	1	\$2,609.33
65" x 104" 16:10 Projection Screen	20877LS	Da-Lite	\$1,122.40	1	\$1,122.40
LX Desk Mount	6068719	Ergotron	\$288.00	1	\$288.00
HDMI to DVI Adapter	26-616-01	Extron	\$26.67	1	\$26.67
Cable Cubby 500	70-1045-02	Extron	\$200.00	1	\$200.00
Cable Cubby 500 Power	60-1384-01	Extron	\$260.00	1	\$260.00
IN1608 Switcher w/Stereo Amp	60-1238-02	Extron	\$2,660.00	1	\$2,660.00
DTP Receiver (HDMI)	60-1271-13	Extron	\$313.33	1	\$313.33
MLC226IP Controller	60-600-02	Extron	\$1,020.00	1	\$1,020.00
12' HDMI Ultra Series Cable	26-663-12	Extron	\$60.00	2	\$120.00
3' HDMI Micro Series Cable	26-667-03	Extron	\$33.33	1	\$33.33
12' Micro VGA w/Audio Cable	26-566-03	Extron	\$44.00	1	\$44.00
Wall-Mount Stereo Speakers	60-1308-02	Extron	\$266.67	1	\$266.67
PC FMJ Tower	BMS FMJ mid Tower	BMS	\$158.75	1	\$158.75
Document Camera Security Lock	BMSAV/TL-1214/BD	BMS	\$68.68	1	\$68.68
Universal Security Projector Mount	LCD LOC II	BMS	\$187.81	1	\$187.81
32" Multimedia Podium w/2 Flip-up Shelves	Custom32	Mulnix	\$3,600.00	1	\$3,600.00
Digital Document Camera	P30	ELMO	\$2,520.57	1	\$2,520.57
6" Extension Pole	CMS006	Chief	\$14.08	1	\$14.08
Drop-Ceiling Projector Mount	CMA440	Chief	\$103.20	1	\$103.20
Lacer Bars	LBP-1R	Middle Atlantic	\$47.33	1	\$47.33
8 Space Security Door	SSDR-8	Middle Atlantic	\$94.67	1	\$94.67
2 Space Locking Drawer	TD2LK	Middle Atlantic	\$163.33	1	\$163.33
9 Outlet Rack-Mount Power Bar	PD-915R	Middle Atlantic	\$95.33	1	\$95.33
1 Space Vented Rack Blank	VT1	Middle Atlantic	\$12.15	2	\$24.30
2 Space Vented Rack Blank	VT2	Middle Atlantic	\$14.67	2	\$29.34

Cable Management Straps	TW12	Middle Atlantic	\$11.97	2	\$23.94
5 Port Higiabit GREENnet Switch	TEG-S50g/A	Trendnet	\$25.33	1	\$25.33
Seating	Learn2 Strive	KI	\$419.63	42	\$17,624.46
Labor	Technology Installation	Go Media			\$4,760.00
			<b>TOTAL</b>		<b>\$39,420.91</b>

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Sell Price Report :  
 ROOM 208

**GENERAL OFFICE SUPPLY**

1003 Jefferson St.  
 Lafayette, La. 70501  
 337-237-2563  
 Joel Faulk

1/11/2019

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Qty	Part Number	Part Description	List:	Sell Price	Extended
21	L2STP/NA/FBR	Learn2 Strive No-arm Chair,Poly,Flat Access Rack	\$746.00	\$419.63	\$8,812.23
	/SX	Starlight Silver Metallic			
	/NFR	No Fire Retardant			
	/PPR	Poppy Red			
	/PW	Plastic worksurface			
	/BLWS	Black			
	/S	Hard floor casters			
21	L2STP/NA/FBR	Learn2 Strive No-arm Chair,Poly,Flat Access Rack	\$746.00	\$419.63	\$8,812.23
	/SX	Starlight Silver Metallic			
	/NFR	No Fire Retardant			
	/PWG	Warm Grey			
	/PW	Plastic worksurface			
	/BLWS	Black			
	/S	Hard floor casters			

Delivery & Installation Included  
 6 Week Delivery  
 Pricing Good Through 42019

List: \$31,332.00

**Total: \$17,624.46**

**Timeline/Implementation Schedule**

- Spring 2019 – Place order for project
- Summer 2019 – Installation
- Fall 2019 – Implementation

**Previously Funded STEP Projects**

- *Expansion of Digital Signage.* Fall 2015. Nadine Bayard.
- *FGM 207 Interactive Classroom Enhancement.* Fall 2016. Nadine Prendergast.
- *Financial Services & Business Research Lab.* Fall 2016. Nadine Prendergast.
- *FGM 102 & 214 Interactive Classroom Enhancement.* Fall 2017. Nadine Prendergast and Mohammed Zubair.
- *FGM 215 Interactive Classroom Enhancement.* Spring 2018. Nadine Prendergast, Grant Coulon and Sara Casiday.

## **References**

- Persk T, Orr D and Alomari E. (2016, February) Classroom Re-design to Facilitate Student Learning: A Case Study of Changes to a University Classroom. *Journal of the Scholarship of Teaching and Learning*, 16 (1), 53-68.
- Bergsagel, V. (2015, January 29). Can Classroom Furniture Improve Student Engagement? Retrieved January 7, 2019, from <https://www.gettingsmart.com/2015/01/can-classroom-furniture-improve-student-engagement/>.
- Barritt, M and Knox, L. (2013) Observations from an Open, Connected, and Evolving Learning Environment. *Planning for Higher Education Journal*, 42 (1).
- Yale University Poorvue Center for Teaching and Learning: Active Learning Classrooms <https://poorvucenter.yale.edu/faculty-resources/managing-classroom/active-learning-classrooms>
- Harvey EJ and Kenyon MC. (2013). Classroom Seating Considerations for 21st Century Students and Faculty. *Journal of Learning Spaces*, 2(1).
- McCorskey JC and McVetta RW. (1978). Classroom Seating Arrangements: Instructional Communication Theory Versus Student Preferences. *Communication Education*, 27, 99-111.