# UNIVERSITY OF LOUISIANA AT LAFAYETTE

## STEP Committee

## Technology Fee Application

**FGM 204 Interactive Classroom Enhancement**

Title

**B.I. Moody III College of Business Administration**
Dr. Lise Anne Slatten, Interim Associate Dean for
Academic Programs
Heather DeValcourt, Director of Marketing & Outreach

Name of Submitter

## Moody College of Business Administration (MCOBA) Information Systems & Multimedia Laboratories (ISM)

Organization

Title: **FGM 204 Interactive Classroom Enhancement**     Date: July 3, 2019

Name (Contact Person):   Dr. Lise Anne Slatten / Heather DeValcourt

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Department/College/Org:   Moody College of Business Administration (MCOBA)
Information Systems & Multimedia Laboratories (ISM)

## ABSTRACT (250 words or less):

This grant proposal is requesting support to convert FG Mouton (FGM) classroom 204 into a SMART interactive classroom that promotes a collaborative and engaging environment for both instructors and students. This proposal supports the University's values of collaboration, intellectual curiosity, and creativity and would have a substantial impact on the experience for all faculty and students from across multiple colleges and disciplines who utilize FG Mouton.

FGM 204 has an antiquated projector and computer, no document camera, no SMART podium, outdated desktop plug-and-play computer speakers, and a manual screen which is often stuck in the down position which hides the white board behind and limits it from being used. The existing equipment, or lack of equipment, hinders instructional quality, negatively impacts student learning, prohibits use of the room for courses needing technology, and hampers use of the room for special programming (sales competition, literary rally, recruiting events).

The funding request is for equipment following the University's SMART classroom technology specifications including one (1) new computer, one (1) ceiling-mounted projector, one (1) electric projector screen, one (1) document camera, one (1) SMART podium, ceiling speakers and other components.

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, these upgrades would provide a functional classroom for faculty and have a substantial impact on the classroom experiences for many students from different colleges each semester.

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

The need for a SMART interactive classroom in FGM 204 with updated technology is a necessity for University faculty to incorporate teaching strategies beyond traditional lecture. Our goal is to create a classroom environment that supports students in the many ways that they learn. Today's students have grown up using technology. The adoption of technology has transformed teaching and classroom engagement. FGM 204 is not being used to its full capacity because it lacks the necessary up-to-date modern equipment.

### Existing Issues
FGM 204 currently includes an outdated computer, antiquated projector, manual projector screen which often remains stuck in the down position, and poor quality desktop plug-and-play speakers. There is no podium or document camera.

- **Computer:** The computer in FGM 204 is old 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 204 contains an older projector causing multiple maintenance issues. For example, the projector light bulb burns out at an 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. Dealing with 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. There are ongoing complaints about the screen being stuck in the down position. This prevents use of the whiteboard that is located behind the screen. When this screen issue arises, which happens frequently, it forces the instructor to interrupt teaching, walk to the ISM office in Moody Hall, and retrieve someone who then must stand on a chair to attempt to fix the screen.
- **Audio/Speakers:** Existing audio is provided by outdated desktop plug-and-play speakers. They operate with limited volume and low quality sound.
- **Document Camera:** There is no document camera currently in the classroom.
- **Podium:** There is no SMART podium currently in the classroom.

### Funding Objectives
- Upgrade technology to support current teaching methods.
- Improve instructional quality and enrich student-learning experiences.
- Improve room utilization experience during student and community events.

The requested SMART technology enhancements for this classroom 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. Instructors need equipment that allows them to walk their students through the case scenarios that they are discussing when teaching problem solving. SMART 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 technology enhancement grant would help many students each year. Instructors from a variety of colleges and disciplines teach in FGM classrooms, so this upgrade would create a positive lasting impression on a wide array of students, not just limited to business students.
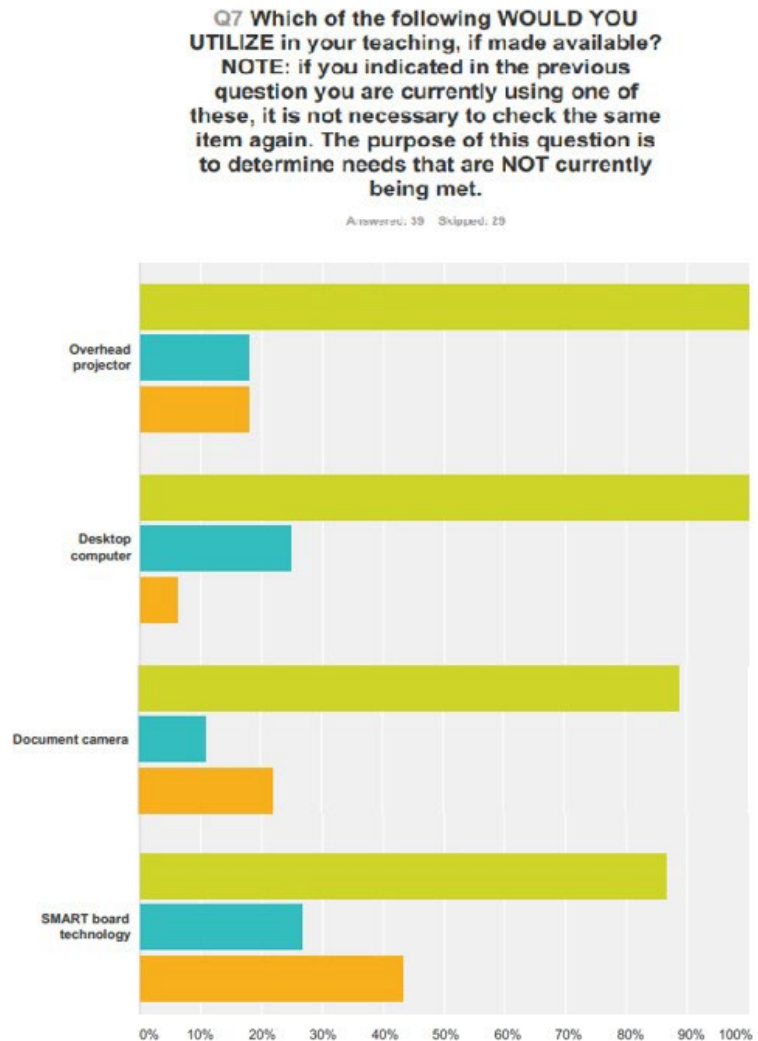
Currently, FGM 204 accommodates up to 40 students. During the Fall 2018 semester, twelve lectures per week were held in in FGM 204. During the Spring 2019 semester, ten lectures per week were held in FGM 204 including management, economics, hospitality management, business law, finance, political science, communications, and math courses. Other classes taught in FGM that would benefit from an enhanced classroom include counseling, educational foundations and leadership, political science, psychology, and physics.

This classroom is also utilized for special purposes by other internal departments and external community partners including Upward Bound, Literary Rally, and new student orientation sessions. In Summer 2019, eighteen new student orientation discussion groups utilized the room. Unfortunately, the audiovisual quality demonstrates to our new students, existing students, and guests that the University lacks modern learning environments.

The need for technology in classrooms has increased over the years as instructors seek to engage students, and provide a learning experience that will help them to thrive in their post-graduate ambitions. The current generation of students has been exposed to teaching using technology since grade school; college level classes should not be technologically inferior. Teaching with technology is now a current-day necessity, especially when trying to engage students in a classroom setting. FGM 204 is not being used to its full capacity because it lacks the necessary equipment for effective teaching. Technology in the classroom makes it possible for students to collaborate with one another and with their professors. It also helps the instructor improve the teaching process.

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.

There is currently a limitation on which classrooms can be used to teach certain classes because they lack certain vital components for effective instruction. According to the 2016 ISM 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 (FGM) have document cameras. The data is concise - when instructors are able to teach utilizing technology, they are most effective as the students are more engaged and actively participating in the class.

**Q7 Which of the following WOULD YOU UTILIZE in your teaching, if made available? NOTE: if you indicated in the previous question you are currently using one of these, it is not necessary to check the same item again. The purpose of this question is to determine needs that are NOT currently being met.**
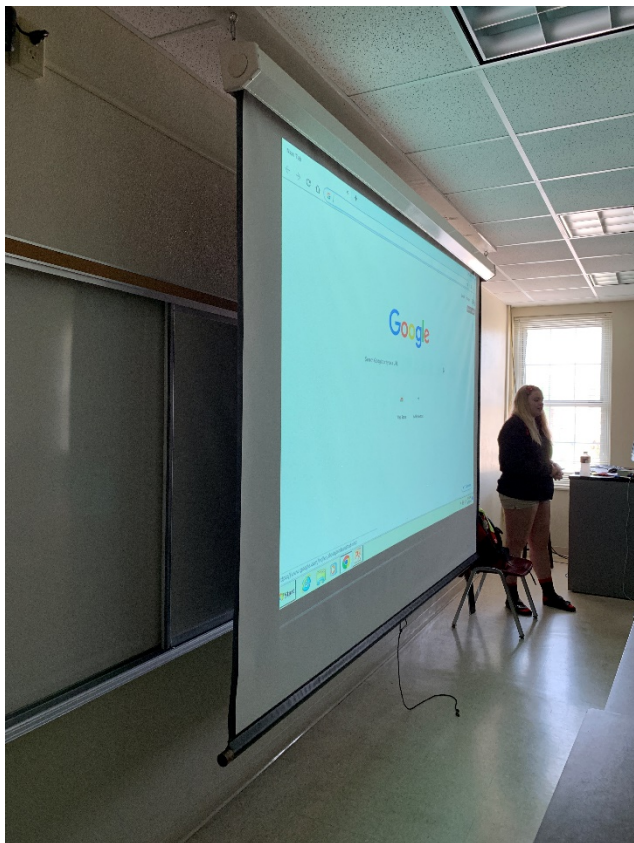
Answered: 39 Skipped: 29



While the requested equipment is the standard setup for a UL Lafayette SMART classroom, this upgrade will have a significant impact on the classroom experience and engagement of students. If this grant is funded, it will enhance the Moody College of Business and the University as a whole by improving the learning experience of many students. It will also have an impact on incoming freshmen's initial perception of our campus. The funding of this grant would put us one-step closer to fulfilling the University's vision of making every classroom on campus a SMART classroom.

The MCOBA ISM Office maintains over 100 faculty and staff computers, 8 classrooms in Moody Hall and 15 classrooms in FGM that are enhanced with technology, thus the department is very familiar with the capabilities of the equipment requested. The MCOBA ISM Office is prepared to manage upkeep and maintenance of the equipment that this grant would provide and will immediately troubleshoot any problems that may occur.



***FGM 204:*** *Outdated computer, plug-and-play desktop speakers, ceiling mounted projector, and manual projector screen stuck in the down position covering the whiteboard.*

***FGM 204:*** *Manual screen.*



***FGM 204:*** *Plug-and-play desktop speakers.*



***FGM 204:*** *Freshmen orientation, June 2019.*

## Proposed Interactive Classroom Enhancements
- Replace the existing technology with SMART specifications including projector, speakers, computer, and electric projector screen.
- Add a SMART classroom items not currently in the room including podium and document camera.

## Projected Lifetime of Enhancement
- Technology: Expected to have a five-year life span.

## Responsibilities
The person responsible for implementation and oversight of this project is the MCOBA ISM Manager. The position is currently vacant but we hope will be filled by August 2019. Responsibilities include:

a. Implementation
> MCOBA ISM

b. Installation
> 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.

c. Maintenance
> MCOBA ISM will provide ongoing maintenance and will 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.

# Budget Proposal

1. **Equipment**     $17,298.95

2. **Software**      $0

3. **Supplies**      $0

4. **Maintenance**   $0

5. **Personnel**     $0

6. **Other**         **$4,760** (technology installation/labor)

**TOTAL:**           **$22,058.95**

## Budget Details

### GoMedia SMART Classroom Quote 6/14/19

| Qty. | Part # | Manufacturer | Description | Price Each | Extension |
|---|---|---|---|---|---|
| 1 | PT-VMZ50U | Panasonic | 5000 WUXGA Lumen Lampless Projector | $2,460.00 | $2,460.00 |
| 1 | NET-FS108PNA | Netgear | 8 Port Switch - 4 PoE | $98.92 | $98.92 |
| 1 | 20877LS | Da-Lite | 65" X 104" Electric Contour Screen | $1,237.60 | $1,237.60 |
| 1 | SYSAUB | Chief | Suspended Ceiling Projector Mount Kit | $343.20 | $343.20 |
| 1 | 26-616-01 | Extron | HDMI to DVI Adapter | $26.67 | $26.67 |
| 1 | 60-1238-83 | Extron | IN1608Xi Switcher  70v Amplifier | $2,660.00 | $2,660.00 |
| 1 | 60-1271-13 | Extron | DTP Receiver (HDMI) | $313.33 | $313.33 |
| 1 | 60-600-02 | Extron | MLC226IP Touch Panel | $1,020.00 | $1,020.00 |
| 1 | SMB113 | Extron | 3 Gang Mount box for MLC226 | $146.67 | $146.67 |
| 2 | 26-663-12 | Extron | 12' HDMI Ultra Series Cable | $60.00 | $120.00 |
| 4 | 26-663-03 | Extron | 3' HDMI Ultra Series Cable | $33.33 | $133.32 |
| 1 | 26-566-03 | Extron | 12' Micro VGA w/Audio Cable | $44.00 | $44.00 |
| 1 | 42-141-03 | Extron | 2x2 Ceiling Speakers | $333.33 | $333.33 |
| 1 | 70-1045-02 | Extron | Cable Cubby 500 | $200.00 | $200.00 |
| 1 | 60-1384-01 | Extron | Cable Cubby Power w/USB | $260.00 | $260.00 |
| 1 | PD-915R-PL | Middle Atlantic | 9 Outlet Rack-Mount Power Bar | $112.00 | $112.00 |
| 2 | VT1 | Middle Atlantic | 1 Space Vented Rack Blank | $13.33 | $26.66 |
| 2 | VT2 | Middle Atlantic | 2 Space Vented Rack Blank | $16.67 | $33.34 |
| 2 | TW12 | Middle Atlantic | Cable Mangement Straps | $12.00 | $24.00 |
| | | | | | |
| 1 | Podium 32 | Exact | 32' Podium with Cable Cubby 500 Cutout | $2,666.67 | $2,666.67 |
| 75 | 24-4P-P-L5SH-BLK | Liberty | Plenum, Shielded Cat5e Cable (per foot) | $0.67 | $50.25 |
| 75 | 16-2C-P-BLK | Liberty | Plenum, Unshielded 16ga Speaker Cable (per foot) | $0.27 | $20.25 |
| | | | | | |
| 75 | 22-2P-PINDSH-BLK | Liberty | Plenum, Shielded 2-Pair 22ga Audio/Control Cable (per foot) | $0.36 | $27.00 |
| 1 | Logo Glass | Clarus | Custom Podium Logo | $333.33 | $333.33 |
| | | | | | |
| | | | | | |
| 1 | BDP-S3700 | Sony | Blu Ray Player | $106.65 | $106.65 |
| 1 | TD2421 | Viewsonic | 24" Monitor | $411.11 | $411.11 |
| 1 | 3071757 | Ergotron | LX Desk Mount Tall pole | $217.05 | $217.05 |
| | | | | | |
| | | | | | |
| 1 | PX-30 | ELMO | Digital Document Camera | $2,505.33 | $2,505.33 |
| 1 | AV/TL 1214BD | BMS | Document Camera Trey Lock | $73.27 | $73.27 |
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|---|---|
| Parts | $16,003.95 |
| Labor | $4,760.00 |
| Shipping | $0.00 |
| **Project Subtotal** | **$20,763.95** |
| Sales Tax | $0.00 |
| **Project Total** | **$20,763.95** |

# Desktop Enhanced - Dell Optiplex 7000 Series with Monitor



- Intel Core i7-8700 Processor (6 Cores/12MB/12T/up to 4.6GHz/65W)
- 16GB 2X8GB 2666MHz DDR4 UDIMM Non-ECC
- 512GB SATA Class 20 Solid State Drive
- 8x DVD+/-RW 9.5mm Optical Disk Drive
- 6 USB 3.0 (2 front/4 rear-1 with PowerShare), 4 USB 2.0 (2 front/2 rear-1 front with PowerShare), 1 Internal USB 3.0 with smart power on, 1 RJ-45, 1 P2/Serial, 2 Display Port 1.2, 1 HDMI, 1 UAJ
- 5-year warranty
- 23-inch monitor with USB Soundbar
- Windows 10
- Office 2016
- Sophos Security Suite

1295.00

**Timeline/Implementation Schedule**
- Fall 2019 – Place order for project
- Fall 2019 / Spring 2020 – Installation and 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, Mohammed Zubair.
- *FGM 215 Interactive Classroom Enhancement.* Spring 2018. Nadine Prendergast, Sara Casiday.
- *FGM 208 Active Learning Classroom Enhancement.* Spring 2019. Phuc Tran, Daniel Hulin, Dr. Lise Anne Slatten and Heather DeValcourt.