

University of Louisiana at Lafayette

STEP Committee Technology Fee Application

Sharon LaHood (Submitter)

College of Engineering - Organization

Signature of Dean of Administrative Head (Required)

Signature of Administrative Head

Abstract Page

Title: Podium Improvement for Rougeau 309

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Department/College:

- Department of Engineering Technology;
- Department of Mechanical Engineering;
- College of Engineering

Abstract

This proposal is submitted on behalf of the faculty in the Engineering Technology and Mechanical Engineering departments to have a desktop computer, podium camera, document camera, and a tall drafting chair added to Rougeau 309 classroom. This will allow all faculty to demonstrate skills to students and provide interactive presentations during class. Funding for this project will improve faculty's ability to teach diverse subject matter.

1. Purpose of the Grant

This grant seeks to provide funding for educational enhancements to a classroom, Rougeau 309, used by multiple departments and programs. Currently, there is a podium and an updated projector with smart board, but no computer system. Faculty must bring personal laptops or tablets to utilize the projection system. The addition of a document camera and drafting chair will support diverse pedagogies such as teaching manual drafting, and blueprint reading. This is the only classroom that has tables for the students to work on projects that require larger work area. The podium camera will enable guest speakers to join the classroom via Zoom as well as allow presentations by faculty. The classroom seats 36 students. Implementation, installation, and maintenance will be performed by Harvey Ozbirn the Computer Systems Manager for College of Engineering.

Impact on Instruction and Lectures

1. Desktop: Faculty will not need to use personal computers to deliver their lecture presentations.
2. Podium Camera: Allows guest speakers who live too far away for a face-to-face visit to interact virtually with students in the classroom. Allow student projects to be projected for the whole class to see.
3. Document Camera: Students will be able to see the professor's resources from their desk.
4. Drafting Chair: Enables professor to perform manual drafting skills using document camera, so all students can see the magnified details easily from their desk. Also, allows blueprints to be displayed with a projection system.

B. The Enhancement Longevity

This equipment should enhance learning in the classroom and assist with retention in the courses taught in the classroom. The benefits of technology to the university, faculty and students can be “dramatic in terms of increased student learning and retention” (Lau, 2003, p. 132). Various multimedia tools help to clarify abstract topics and the visual and graphic form helps students visualize concepts in their minds (Lau, 2003). Smart classrooms can be effective tools in faculty recruiting and retention.

Costs:

1. Enhanced desktop \$1,588.00
2. Microsoft LifeCam Studio for Business \$82.99
3. IPEVO V4K Ultra High Definition 8MP USB Document Camera \$149.00
4. Stand Up Desk Store Sit to Stand Drafting Task Stool Chair \$266.00

Total Costs - \$2,085.99

References

- Lau, L. K. (2003). Institutional factors affecting student retention. *Education project innovation*, 124(1), 126–136. Retrieved June 15, 2022, from