Initiative Report for Bus/CIT 2009-10

Video Capture: 130, 132

Summary:

To upgrade the AV equipment in these rooms to include the ability to capture video of instruction.

Description

The Dept has been developing the use of classroom video capture infrastructure, from a video "cart" to mounted equipment in 19/126 (a funded initiative from last year).

The need for both instruction and use of supplemental/tutorial materials based on videotaped lectures, coupled with the explosive growth of CIT programs (up 60% Spring term) has created the need to move quickly to expand this developmental effort.

This request is to have funding capacity to upgrade 19/130 with video capture capacity. This is the primary Network Operations bench lab which has seen the bulk of enrollment growth, and which has correspondingly greater needs for supplemental materials and instructional video to support both hybrid and online offerings.

This request is also to be able to add video capture capacity in 19/132, the soon-to-be upgraded lab in support of Computer Gaming and various art classes that are closely integrated into CIT curriculum in an alliance with the Art Dept.

Questions and Answers

How is the initiative linked to the Unit Plans most recently submitted?

1. **How does it continue the achievement of those goals?**
2. **If this is a continuation of an initiative started last year, make sure that relationship is clear.**

How is this initiative linked to the efficiencies and productivities plans you had last year?

1. **How does it continue the achievement of these plans?**
2. **If this is a continuation of an efficiency or productivity plan started last year, make sure that relationship is clear.**

Initiatives
1. Last year the dept initiative was to put this video capture capability in 19/126. The dept

has had significant success in video capture using the video "cart", and the work of installing the video capture system more permanently (on ceiling and walls) has just been completed.

2. This is a continuation of the 19/126 project. This is an active development effort, addressing the technical issues as they arise - e.g. browser display issues in IE, and developing the process for deploying the videos. This funding is critical for taking next steps in improving the quality and ease of production for this level of video instruction and support. There are also pedagogical issue that are being worked on by the faculty, addressing when and how to use such videos, when to instead use the DL studio to produce professional-level videos.

Efficiencies
1. The development and application of this technology has obvious immediate application to improving efficiencies and productivity. Lectures, once given, can be repeatedly viewed on-demand. Online courses built around such videos can be more efficiently run, allowing instructors to focus more time on interaction with the students.
2. The Dept is committed to quality online instruction, hybrid instruction and development of supplemental instruction to help meet its capacity, recruitment and retention goals.

Describe the resources needed:

Perkins
Tech Fee

Both of these funds are appropriate sources for this work.

19/130: $12,000 to upgrade existing projector and instructor station
19/132: $12,000 to upgrade existing projector and instructor station

Equpment includes:

- web camera with 6 preset positions - instructor controlled
- codex translater
- recording/mixing equipment
- downsampler to take computer output straight to video

What specific measurable program outcomes do you expect to achieve with this initiative? The outcomes should be specific enough to be measurable. Also, outline the method that will be used to determine the results.

Specific outcomes include the routing production of instructional lecture, hybrid, and supplemental tutorial materials for Network Operations classes. Some of these are re-videotaping topics for improved instruction, some are in some sense duplicates from

different perspectives that allow a better library of supplemental instructional materials to be developed.

Through this work the Dept also expects to be able to demonstrate improved retention of students in demanding courses, and improved student experience in the open instructional lab though development of a library of support resources.

Department Priority:

10

Unit Resources:

This work is supported extensively through student (ICP) fees, both for the lab infrastructure as well as ancillary purchases of equipment as needed. Commitment of lab staffing both for development and maintenance of the resulting systems is significant. Faculty are deeply engaged as part of their non-instructional and departmental teaching load release time. The Dept maintains servers, labs, software and staffing support for this effort including use of student Learn and Earn, timesheet positions, and part-time ancillary work.

Funding Request: Carl Perkins

Is this a Career & Technical Education program approved by the state and offered through Lane for credit?

Yes

If not a Career & Technical Education program, does your request provide considerable support for students enrolled in these programs?

No

Do you have an advisory committee that meets 2-3 times per year?

Yes

If request is for personnel, will funds be used to replace an existing position?

How will funding this initiative increase or sustain the academic achievement and technical skills attainment (GPA of 2.0 or better) of Career and Technical Education students?

Video materials developed are for challenging Career and Technical courses, and are directly applicable to online instruction, hybrid instruction, supplemental resources that positively impact retention efforts.

How will funding this initiative increase or sustain the number of CTE students that graduate or receive a one year certificate from Lane and help prepare the students for employment?

Instructional materials are available for student viewing as many times as needed, on-demand. This leads to increased retention that is observable in courses that are technically challenging. This practice impacts faculty as they endeavor to shift from information "source" to becoming a "guide on the side" where their time is spent in more interactive ways with students helping them to understand the material that was previously presented.

EQUIPMENT $

COMPUTER HARDWARE $

24000

COMPUTER SOFTWARE $

MATERIALS & SUPPLIES $

CURRICULUM DEVELOPMENT (Hours)

PART-TIME FACULTY $

TIMESHEET STAFF $

TRAVEL $

Can this initiative be partially funded?

Yes

EQUIPMENT $

(E) Explanation of effect of partial funding:

COMPUTER HARDWARE $

12000

(CH) Explanation of effect of partial funding:

Implement new version of video capture system in one room (19/130) rather than in two (19/132).

COMPUTER SOFTWARE $

(CS) Explanation of effect of partial funding:

MATERIALS & SUPPLIES $

(MS) Explanation of effect of partial funding:

CURRICULUM DEVELOPMENT (HOURS)

(CD) Explanation of effect of partial funding:

PART-TIME FACULTY $

(PF) Explanation of effect of partial funding:

TIMESHEET STAFF $

(TS) Explanation of effect of partial funding:

TRAVEL $

(T) Explanation of effect of partial funding:

Funding Request: Curriculum Development

Funding Request: Technology Fee

1. Category of request

- **Maintain existing technology**
- **Increase student access to technology**
- **New technology**

Please type in the category of the request in the field below.

Increase student access to technology

2. Campus location

- **Main Campus**
- **Downtown Center**
- **Florence**
- **Cottage Grove**
- **CLC (list specific locations)**

Please type in the location of the request in the field below.

main campus

3. Names of the person(s) with more information (if needed):

Mark Williams

4a. Budget ORGN

641510

4b. Budget PROG

112000

5.How many students will benefit per year?

1000

6. Describe the benefit?

Online course material, hybrid course material, supplemental instructional material for improved tutoring and sophistication of homework assignments.

COMPUTER HARDWARE $

20000

COMPUTER SOFTWARE $

STAFFING $

INSTALLATION $

4000

LICENSING $

Can this initiative be partially funded?

Yes

COMPUTER HARDWARE $

10000

(CH) Explanation of effect of partial funding:

Implementation of new version of video capture in 19/130 only (not in 19/132).

COMPUTER SOFTWARE $

(CS) Explanation of effect of partial funding:

STAFFING $

(S) Explanation of effect of partial funding:

INSTALLATION $

2000

(I) Explanation of effect of partial funding:

Implementation of new version of video capture in 19/130 only (not in 19/132).

LICENSING $

(L) Explanation of effect of partial funding: