

Bus/CIT 2011-12

CIT - External USB Drives

Summary:

Purchase 60 external USB drives. Students will use these to store virtual machines of operating systems such as Windows and Linux. Storing the operating system images on external drives allows them to use any computer in our classrooms and labs to access those operating systems.

Description

Students in eight distinct operating systems and security courses currently use removable hard drives to store operating system images. There were a total of 36 sections of students who utilized these hard drives in the last year. The removable drives allow them to utilize a specific set of computers in one classroom and the main CIT lab to do assignments for those classes. This initiative would begin to replace those removable drives with external USB drives. The USB drives can be used with any computer. The classroom where students currently use the removable hard drives must provide two computers at every workstation. One computer has an empty drive bay for the removable hard drive. The second computer allows for other classes to be taught in that classroom.

The USB external drives provide a couple of major advantages. They would allow CIT to schedule the operating systems and security courses in any of our classrooms rather than just the one classroom. This flexibility in assigning classrooms is desirable since it allows for improved utilization of classroom resource. A second advantage is that the USB drives will produce cost savings in the future since the classroom that has accommodated these courses could be outfitted with one computer rather than two, when it is time to replace the computers in that classroom.

Some of the older removable drives need to be replaced since they do not have enough space to contain multiple operating system images. The USB drives will be used to replace the oldest removable drives rather than purchasing more removable drives. In addition by purchasing 60 or so USB external drives each year over a three or four year period, the removable drives could be entirely replaced by USB external drives. It may take up to four years if enrollment remains at current level.

Since the USB drives can be used for multiple courses by one student, this method is economically superior to the removable drives. That is more students can be served by the same number of drives.

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.

The USB drives allow for the courses mentioned above to be scheduled in other classrooms, providing more flexibility in assigning courses to classrooms. In addition, since USB drives can be used with any of CIT's computers, they

become available as a resource to students in classes that have not been using the removable drives. These are two ways that the USB drives would help accommodate CIT's recent FTE growth.

A number of CIT courses were updated to Windows 7 as a result of last year's initiative. These courses include CIS 140 and CIS 227N. The USB drives would support the curriculum in CIS 140, CIS 227N and six other courses that are required in the Computer Network degree or Network Security certificate. Each of these courses requires greater disk space resource since the updated operating systems all require more disk space. Therefore this initiative helps sustain the Computer Network degree and Network Security certificate.

Describe the resources needed:

Students in eight distinct operating systems and security courses currently use removable hard drives to store operating system images. The 60 USB drives would replace the use of the removable drives in at least two sections per term. CIT intends to request more funds in the next budget cycle to replace more removable drives with USB drives. The USB drives would cost approximately \$80 each.

60 USB drives at \$80 each

$60 * \$80 = \$4,800$

Request: Carl Perkins (CH) \$4,800

Request: Technology Fee (CH) \$4,800

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.

At least two sections of operating systems or security classes will utilize the USB drives. The drives will be assigned to up to 60 students for the term. If a student is in multiple operating systems classes the same term, that student can use the drive in all the classes.

Department Priority:

21

Unit Resources:

Funding Request: Carl Perkins

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

No

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?

USB drives are a popular technology used by IT professionals.

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?

USB drives will be used as the resource to hold operating system images. These operating system images are utilized by the students to accomplish assigned activities that build skills needed on the job. These drives will be used by eight distinct courses that are required or serve as electives in the Computer Network degree.

EQUIPMENT \$

COMPUTER HARDWARE \$

4800

COMPUTER SOFTWARE \$

MATERIALS & SUPPLIES \$

CURRICULUM DEVELOPMENT (Hours)

PART-TIME FACULTY \$

TIMESHEET STAFF \$

TRAVEL \$

Can this initiative be partially funded?

Yes

EQUIPMENT \$

2400

(E) Explanation of effect of partial funding:

30 external drives can be used in one section per term. However more funds will have to be found later to replace the currently used removable hard drives.

COMPUTER HARDWARE \$

(CH) Explanation of effect of partial funding:

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.

Maintain existing technology and 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):

Ron Little, Larry Scott

4a. Budget ORGN

4b. Budget PROG

5. How many students will benefit per year?

Up to 60 students per term (or 240 students per year) will benefit.

6. Describe the benefit?

The USB drives are more convenient since they can be used with any computer including a student's personnel laptop.

COMPUTER HARDWARE \$

4800

COMPUTER SOFTWARE \$

STAFFING \$

INSTALLATION \$

LICENSING \$

Can this initiative be partially funded?

Yes

COMPUTER HARDWARE \$

2400

(CH) Explanation of effect of partial funding:

30 external drives can be used in one section per term. However more funds will have to be found later to replace the currently used removable hard drives.

COMPUTER SOFTWARE \$

(CS) Explanation of effect of partial funding:

STAFFING \$

(S) Explanation of effect of partial funding:

INSTALLATION \$

(I) Explanation of effect of partial funding:

LICENSING \$

(L) Explanation of effect of partial funding: