IT 2008-09 Initiative: Network Infrastructure

Summary:

This initiative provides some of the most necessary hardware for the 51 labs that Instructional Computing supports. The funding provided by this initiative would cover the upgrade of the server cluster that our students and technicians have come to depend on.

Description:

Without the proper network support hardware, Instructional Computing could not provide services to the 51 computer labs and classrooms it currently supports. The existing server cluster, which provides for the Instructional Computing labs/classrooms is now aging and out of warranty. This server cluster allows us to support these locations, in a more efficient manner, and provide the highest quality of services to all the locations we support. With the failover features, netstorage capacity and access demands, the need for smooth operations and the basic need for a stable network environment, this server cluster needs to be upgraded to ensure uninterrupted services to all the students who utilize an ICL-supported room. This cluster serves an estimated 19,000 students each year. The upgrades provided by this initiative will keep the ICL network infrastructure functioning and reliable, while expanding our ability to provide network storage to Lane students.

Strategic Direction

- Build organizational capacity and systems to support student success and effective operations.
- Create, enhance, and maintain inviting and welcoming facilities that are safe, accessible, functional, well-equipped, aesthetically appealing and environmentally sound.
- Foster the personal, professional, and intellectual growth of learners by providing exemplary and innovative teaching and learning experiences and student support services.
- Position Lane as a vital community partner by empowering a learning workforce in a changing economy.

Learning Plan Goals

- Enhance student success and retention
- Facilitate more integrated and connected educational opportunities.
- Organize coordinated support for Instructional technology.

Student Affairs Plan Goals

College Council Priorities

- 3. Efficiencies
- 4.3 Responding to unit plans/council plans: Enhancing Classrooms
- 5.2 Instructional Redesign: Leveraging Technology

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.*

This initiative is linked to our previous unit plans in that it is a core component in providing and maintaining existing services for all supported locations. Without a dependable network infrastructure, all other services provided to students utilizing Instructional Computing supported labs/classrooms will deteriorate and/or disappear.

Describe the resources needed:

This initiative will allow us to maintain existing network services, while expanding the capacity for student file storage over the network. Specifically, this funding will replace the existing server cluster with an HP c-Class server cluster enclosure, 3 server blades, 12 hard drives for Netstorage, 6 hard drives for the server functions and applications, a 3 year parts/labor/onsite warranty with 5 year hardware support.
This funding will help to maintain the necessary network infrastructure for ICL to continue to support all current locations. It will continue services that students have come to rely on. This funding helps to ensure that students have the resources they need, when they need them.

Server Hardware/Licensing

- c-Class Server Enclosure with monitor (CH) $8,610.00
- Cisco Catalyst Blade Switch (CH) $3,328.00
- 4GB SAN Switch (CH) $4,499.00
- 12 Hard drives for Netstorage (CH) $5,314.00
- 3 Server Blades (CH) $11,850.00

- HP Care Pack 5-year, 4 hour, 24x7 Hardware Support (LIC) $3,918.00
- Server Licensing and Maintenace (LIC) $6,000.00

Request: Technology Fee (CH) $33,601.00
Request: Technology Fee (LIC) $9,918.00

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.

This funding will help to maintain the necessary network infrastructure for ICL to continue to support all current locations. It will continue services that Lane students have come to rely on. This funding helps to ensure that students have the resources they need, when they need them.

Without this upgrade to the existing server, students will begin to experience downtimes that limit and detract from their ability to complete their classes and schoolwork.

This outcome can be measured through continued services provided to students and maintenance records for this server cluster unit and its components.

Department Priority:

07

Unit Resources:

Technical staff time in physically setting up the new cluster, loading all software, configuring the system to serve the needs of the students, setting up failover systems, and to maintain the system once it is setup. Technical staff time will also be required to remove the existing cluster, and repurpose it for other non-critical network functions.

Carl Perkins Funding Request

Curriculum Development Funding Request

Technology Fee Funding Request

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

    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 and Downtown Center

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

Barbara McIntire

4a. Budget ORGN

320301

4b. Budget PROG

210000

5.How many students will benefit per year?

~19000

6. Describe the benefit?

The primary student benefit to this is zero lost class or open lab time. Each student having paid the technology fee should have access to the technology at Lane without interruption due to a server going down, or the lack of the ability to reload a workstation quickly. Students will also benefit from an increased allocation of network file storage space, which is accessible on campus and at home.

COMPUTER HARDWARE $

33601

COMPUTER SOFTWARE $

Question Not Answered

STAFFING $

Question Not Answered

INSTALLATION $

Question Not Answered

LICENSING $

9918

Can this initiative be partially funded?

No

COMPUTER HARDWARE $

Question Not Answered

(CH) Explanation of effect of partial funding:

Question Not Answered

COMPUTER SOFTWARE $

Question Not Answered

(CS) Explanation of effect of partial funding:

Question Not Answered

STAFFING $

Question Not Answered

(S) Explanation of effect of partial funding:

Question Not Answered

INSTALLATION $

Question Not Answered

(I) Explanation of effect of partial funding:

Question Not Answered

LICENSING $

Question Not Answered

(L) Explanation of effect of partial funding:

Question Not Answered