

IT 2010-11

Infrastructure Upgrade: CMS

Summary:

To address our current operational issues and long-term initiatives, we require a highly-available and scalable web infrastructure to support: a Content Management System (CMS) to replace main web server, application services, database services, source code version control, backup and logging services.

Description

Web-related infrastructure needs a comprehensive architectural redesign to accommodate the demand for web services currently planned.

The current methodology for maintaining and hosting the college website is no longer sustainable for growth and the utilization of new technologies to occur internally. Content managers and administrators are similarly frustrated with limitations and problems involving Adobe's Dreamweaver and Contribute software, which are currently used to maintain the college website.

To address our current operational issues and long-term initiatives, we require a highly-available and scalable web infrastructure to support: a Content Management System (CMS) to replace main web server, application services, database services, source code version control, backup and logging services.

We will be focusing our efforts on implementing an open source CMS product (Drupal, for example) or possibly building our own using a framework such as Django. All costs associated with the CMS implementation are for enhancing the infrastructure to support the next generation of web services and applications.

This is an extremely important initiative, as it provides the basic foundation needed to support the numerous web initiatives and projects already queuing up in the Web Infrastructure Leadership Team's (WILT) project pipeline.

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 new and not linked to previous initiatives. However, it does link directly with the improvements planned and currently being implemented in our web servers and web presence.

This initiative is a continuation of the directive given last year to the Web Team to review our existing web presence and implement a business plan to ensure that Lane's web presence is up to date and full of the kind of information that we want to present to current and future students.

Describe the resources needed:

48-port switch with 10G module (CH) \$7,000.00
Additional Load Balancer (CH) \$20,000.00
Syncsort BackupExpress client licenses-\$500 x 3 nodes (LIC) \$1,500.00
Licenses for Databases-\$2,500 x 3 nodes (LIC) \$7,500.00
Hot Backup SQL Client-\$1,250 x 2 (CS) \$2,500.00
Sun 4170 server (CH) \$10,000.00
Replacement iSCSI SAN-Sun 7110 4TB (CH) \$15,000.00

Request: Technology Fee (CH) \$52,000.00
Request: Technology Fee (LIC) \$ 9,000.00
Request: Technology Fee (CS) \$ 2,500.00
Request: Technology Fee (CH & LIC & CS) \$63,500.00

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.

The immediate result of funding this initiative will be the purchase or development of a CMS (Content Management System) for Lane. The outcome of this will be improved ability to update, add pages, and in general, keep Lane's website up to date and provide the ability for all web updaters to maintain their web pages quickly and easily. This will help position Lane's website as dynamic and full of important and timely information for both our current students and for future students.

The outcome of this initiative can be measured through both internal (Lane web updaters) and external (Lane students) surveys.

Department Priority:

15

Unit Resources:

Web Team members will research and purchase or develop a CMS system for Lane. They will implement the new system, IT training staff will train staff in the use of the CMS, and IT technical and web staff will provide continued support, install any upgrades, and maintain the software and hardware for the life of the CMS.

Funding Request: Carl Perkins

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 introduce New 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.

All

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

David Walton
Rob Chevalier
Barbara Barlow
Todd Lutz

4a. Budget ORGN

320301

4b. Budget PROG

210000

5.How many students will benefit per year?

Approximately 25,000

6. Describe the benefit?

Students will benefit from this initiative through more dynamic and up to date information being easily accessible on Lane's web pages. This will help both current and potential students access the information they need quickly and easily and will help to ensure that the information they access on the web is current.

COMPUTER HARDWARE \$

52000

COMPUTER SOFTWARE \$

2500

STAFFING \$

INSTALLATION \$

LICENSING \$

9000

Can this initiative be partially funded?

Yes

COMPUTER HARDWARE \$

27000

(CH) Explanation of effect of partial funding:

If we delay the purchase of the Sun server until 2011-2012, then we will not be able to provide as extensive services, but could still implement the CMS. The server purchase would be a vital initiative for 2011-2012 however. Also, we could purchase maintenance licensing on the existing HP FiberChannel SAN rather than purchasing a new SAN this year. However, this would mean that the new SAN purchase would be a vital initiative for 2011-2012. Also, it would cost \$7500 to renew the maintenance licensing or \$15,000 to purchase new. With the age of the existing SAN it is most logical to purchase the new one this year if funding is available.

COMPUTER SOFTWARE \$

2500

(CS) Explanation of effect of partial funding:

No change

STAFFING \$

(S) Explanation of effect of partial funding:

INSTALLATION \$

(I) Explanation of effect of partial funding:

LICENSING \$

16500

(L) Explanation of effect of partial funding:

Licensing price increase is due adding maintenance licensing for existing SAN vs. purchasing a new SAN.