Science 2010-11

Science Technology Maintenance and Support

Summary:

The initiative supports student learning in Science by maintaining existing instructional technology, replacing outdated student computers, acquiring software, and upgrading and renewing licenses. Enhancements assist faculty in adopting and implementing effective and stimulating learning activities. This initiative also provides for personnel to support instructional technology in Science.

Description

The initiative maintains existing technology in the Science Division by replacing computer components, printer supplies, and various infrastructure hardware and software. The initiative replaces classroom computers in 9 science labs/classrooms where computers are now over 6 years old. Outdated printers are replaced in 7 lab/classrooms with Laser Duplex printers, which support sustainability goals. We request a range of instructional enhancements to provide state-of-the-art pedagogy in all our lab/classrooms.

Technology used in the Science Division requires tech fee funding for two .5 FTE Information Technology Support Specialists. The Specialists support student-used computers in classrooms and the SRC; and provide support directly to students engaged in computer-based learning activities and projects.

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 supports the ongoing Division themes of:

1. Optimizing sustainable access for students and options for quality learning: and
2. Optimizing the curricula and resources we already have (continuing from FY10)

The initiative specifically relates to the Division's goal #9: Maintain and improve technology for student learning. Provide adequate, stable staffing for supporting technology and provide professional development for technology use.

With the exception of enhancements, this initiative is linked to the other Unit Plans recently submitted by listing recurring needs, necessary to the function of instruction.
It continues the achievement of those goals by:

- Providing personnel to maintain student computers in science laboratories, and the Science Resource Center which offers computer testing and computer use for students. These services are needed to support science classes and to retain students.
- Complying with course syllabi and software licensing copyright laws.
- Ensuring that students have functional computers and to maintain the support of student computers and other forms of technology (too many to list here) used in science teaching by all science disciplines.
- Transforming the college organization by building systems to support student success and effective operations, which then promotes growth. It ultimately provides increased development opportunities for students both within and outside the College.

Describe the resources needed:

1. Maintenance of Student-Use Computers and Printers

- Software Licenses (categorized as software) 6,213
- Student workstation hardware components 2,500
- Projector maintenance (lamps and components) 3,500
- Printer supplies (toner, fusers, drum kits, transfer kits, maintenance kits) 18,256
- Memory modules 1,744
- Server hardware components 7,345
- Warranty extensions 1,447
- Infrastructure for hardware 1,800

Total Maintenance $42,805
Tech Fee

2. Replacements
Student laboratory hardware replacements for systems more than 6-years old

- 119, 14 (PC) systems@$1,000 = 14,000
- 193, 8 (PC) systems@$1,000 each = 8,000
- 117A, 1 (PC) system@$1,000 each = 1,000
- AV Projection System Cart System Computers (2) = 2,000
- Floor Port Replacements (34) = 8,500
- LaserJet Duplex Printers (7@$1,500 each) Rooms 103, 107, 117, 119, 128, 142A, 193 = 10,500
- 8 Projection Systems@$4,973 Rooms 103, 107, 111, 115, 117, 119, 140, 153 = 39,784

- Audio Speaker Systems (6@$89) Rooms 103, 105, 107, 119, 140, 142 = 534

Installation

- 8 Projection Systems@$225 Rooms 103, 107, 111, 115, 117, 119, 140, 153, 188 = 1,800
- Floor Port Replacements (34) = 4,250
- Audio System Installation Rooms 103, 105, 107, 119, 140, 142 = 500

Total hardware replacements $90,868
Tech Fee

3. Support
Two 0.5 FTE Information Technology Technicians

- 0.5 FTE Information Technology Technician @ $22.13/hr; LA,S20, $23,015 Salary plus $12,773 OPE [.555], Total: $35,788
- 0.5 FTE Information Technology Technician @ $15.87/hr; L8,S9, $16,489 Salary plus $5,145 OPE [.312], Total: $21,634

Recurring Costs: $57,422
Tech Fee; General Fund

4. Enhancements

- SRC, 193 additional computers - 6 (PC) systems = 6,000
- Starboard Systems (7@$1,350 each) Rooms 119, 140, 142, 144, 145, 153, 188 = 9,450
- Ceiling Mounted Projection System (room 130) 4,973
- Projection System Computer (130) 1,000

Installation

- 1 Projection System (130) = 825

Computer Software

- New Software = 1,800

Total Enhancements $24,048
Tech Fee

All dollar amounts are approximate.

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.

- Approximately 9,800 students annually will benefit from maintaining instructional technology in Science. (enrollment data)

- Students using the SRC will experience a high level of technical support and access to computers to complete course projects and study using specialized software. (Student survey data)

- Students in Science lab/classrooms will experience a high level of engagement in learning activities supported by computer technology. (course evaluations, survey data)

Department Priority:

1

Unit Resources:

This is the Division's highest priority.

David Schiappa, the Science Network Administrator, purchases, manages, maintains, and installs the majority of technology in the Science Division. His time and effort will ensure appropriate use of all the equipment in this initiative. He is supported by our current Tech Fee funded classified support staff.

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 enhance capabilities

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):

Sarah Ulerick, Division Dean
David Schiappa, Science Network Administrator

4a. Budget ORGN

691002

4b. Budget PROG

111000

5.How many students will benefit per year?

Enrollment in FY09 increased over 22% in Science, from approximately 8,000 registrations in FY08 to over 9800 registrations in FY09. All science students benefit from maintaining instructional technology in Science. (enrollment data)

6. Describe the benefit?

1. Students will experience a high level of technical support and access to computers to complete course projects and study using specialized software. (Student survey data)
2. Students in Science lab/classrooms will experience a high level of engagement in learning activities supported by computer technology. (course evaluations, survey data)

COMPUTER HARDWARE $

140886

COMPUTER SOFTWARE $

8013

STAFFING $

57422

INSTALLATION $

7375

LICENSING $

1447

Can this initiative be partially funded?

Yes

COMPUTER HARDWARE $

119463

(CH) Explanation of effect of partial funding:

This funding level covers only maintenance and replacements. All enhancements are removed. Enhancements are intended to increase the smart classroom capacity of lab rooms, add student-use computers to the SRC computers in Bldg 16, and increase usefulness of the student computer lab Rm 130/Bldg 16.

COMPUTER SOFTWARE $

6213

(CS) Explanation of effect of partial funding:

This removes the new software category of expense; new software extends learning opportunities for students.

STAFFING $

(S) Explanation of effect of partial funding:

Cannot be partially funded

INSTALLATION $

6550

(I) Explanation of effect of partial funding:

This removes installation costs associated with enhancements.

LICENSING $

(L) Explanation of effect of partial funding:

Cannot be partially funded