Science 2008-09 Initiative: Science Technology Maintenance

Summary:

The initiative supports student learning in Science by maintaining existing instructional technology, replacing outdated student computers, acquiring software, and upgrading and renewing licenses. 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. There are also eight science labs and two classrooms that need replacement computers. 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.

Strategic Direction

- Achieve and sustain fiscal stability.
- Build organizational capacity and systems to support student success and effective operations.
- Commit to a culture of assessment of programs, services and learning.
- 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.

Learning Plan Goals

- Enhance student success and retention
- Increase support for innovation in instruction.
- Organize coordinated support for Instructional technology.

Student Affairs Plan Goals

- Create a Welcoming, Inclusive, and Responsive Environment.
- Develop policies and practices to increase student persistence.
- Ensure success-oriented systems and experiences.

College Council Priorities

- 1.b. Enrollment Management: Recruitment and Retention
- 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.*

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

The initiative is linked by containing recurring components, primarily, human resource support of student use of technology (two essential 0.5 FTE positions in the Science Division), and also hardware and software.

1. How does it continue the achievement of those goals?

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.

2. If this is a continuation of an initiative started last year, make sure that relationship is clear.

It keeps the commitment to maintain a culture of services and learning.

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

Last year's plans included replacing some of the student computers during the 2008-2009 academic year, renewing half-time human resource support, and also continuing essential technological maintenance. Requested student computers will replace those that will be over six years old.

1. How does it continue the achievement of these plans?

It continues a practice of replacing 5 year old (or more) student computers, and providing human resource support associated with efforts to make unconfigured hardware function in a way that meets student learning.

2. If this is a continuation of an efficiency or productivity plan started last year, make sure that relationship is clear.

It transforms the learning environment by developing institutional capacity to respond effectively and respectfully to students, staff, and community members of all cultures, languages, classes, races, genders, ethnic backgrounds, religions, sexual orientations, and abilities. Computers meet the needs of differently abled people, who need technological accommodations required by the ADA. The support also enhances, and maintains facilities that are accessible, functional, well-equipped, and aesthetically appealing.

Describe the resources needed:

Student Workstations Maintenance

Software

- Data Studio ($349)
- DeepFreeze Enterprise ($660)
- DeepFreeze MAC ARD (173)
- Energy 10 (600)
- Fortres 101 ($255)
- Graphical Analysis ($58)
- MacLink Plus (one copy) ($149)
- MatLab (760)
- OrCad (Pspics) License renewal [10 @$100 each] ($1000)
- Photoshop for Medical Illustration($1332)

- Sky Student Edition ($441)
- Spartan Student Student Edition ($900)
- Stella Modeling Software upgrade($776)
- Science Dissection Software (BioLab Pig) licenses ($750)

Workstation Hardware Replacement Components

- Keyboard, hard drives, monitors, cable, RAM, mice power supplies, drives, batteries, media, Blue Tooth USB Adapters, other components sound cards, NICs ($1500)

Request: Tech Fee

Student Lab Computer System Replacements for Systems More than 5-yrs Old

- Bldg 16 Rm 103, 9 systems @ $1000 ea ($9000)
- Bldg 16 Rm 105, 9 systems @ $1000 ea ($9000)
- Bldg 16 Rm 107, 9 systems @ $1000 ea ($9000)
- Bldg 16 Rm 115, 9 systems @ $1000 ea ($9000)
- Bldg 16 Rm 147, 9 systems @ $1000 ea ($9000)
- Bldg 16 Rm 148, 9 systems @ $1000 ea ($9000)
- Bldg 16 Rm 152, 12 systems @ $1000 ea ($12000)
- Bldg 16 Rm 153, 1 system @ $1000
- Bldg 16 Rm 154, 1 system @ $1000

Request:Tech Fee

Infrastructure Maintenance

- Hardware replacement components:
    - Projector maintenance (lamps and components)($3500)
    - Printer supplies (toner, fusers, drum kits, transfer kits, maintenance kits)($6256)
    - Printer replacement (3) Rooms:109,111,152 ($4500)
- Backup Software Upgrade ($1744)
- Server hardware replacement components:
    - Hard Drive replacement ($3066)
    - Tape Cartridges (20-pack)($1600)
- Warranty extensions ($1447)
- UPS (4) for ProCurve Switches ($2800)
- Core Switch for Building 16 ($3000)
- Floor Port Replacements (does not include installation) ($4800)

Request: Tech Fee

Human Resource Support

- 0.5 FTE Information Technology Technician @ $20.97/hr; LA,S18,$21808 Salary plus 12169 OPE [.558] ($33977)
- 0.5 FTE Information Technology Technician @ $15.36/hr; L8,S5, $15959 Salary plus 5506 OPE [.345] ($21465)

Request: Tech Fee

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.

1. Approximately 8,000 students annually will benefit from maintaining instructional technology in Science
2. 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.
3. Students in Science lab/classrooms will experience a high level of engagement in learning activities supported by computer technology.

Department Priority:

1

Unit Resources:

The Network Administrator, David Schiappa, will assist in installation and maintenance of instructional technology for the Science Division.

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

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

Sarah Ulerick, Division Chair
David Schiappa, Science Network Administrator

4a. Budget ORGN

691002

4b. Budget PROG

111000

5.How many students will benefit per year?

Approximately 8000 students will benefit from the initiative

6. Describe the benefit?

Students will benefit by having appropriate hardware, software, and support necessary for science instruction.

COMPUTER HARDWARE $

106136.00

COMPUTER SOFTWARE $

8213.00

STAFFING $

55442.00

INSTALLATION $

6280.00

LICENSING $

Question Not Answered

Can this initiative be partially funded?

Yes

COMPUTER HARDWARE $

106136

(CH) Explanation of effect of partial funding:

Question Not Answered

COMPUTER SOFTWARE $

2088.00

(CS) Explanation of effect of partial funding:

Some older versions of software may be used; however, there are some that require renewal to comply with the copyright agreement and/or support contracts.

Required (partially-funded) Software:

- DeepFreeze Enterprise ($660)
- DeepFreeze MAC ARD ($173)
- Fortres 101 ($255)
- OrCad (Pspics) License renewal ($1,000)

STAFFING $

55442

(S) Explanation of effect of partial funding:

Question Not Answered

INSTALLATION $

6280

(I) Explanation of effect of partial funding:

Question Not Answered

LICENSING $

Question Not Answered

(L) Explanation of effect of partial funding:

Question Not Answered