LAS POSITAS
COLLEGE

INSTRUCTIONAL EQUIPMENT REQUEST

Due in Dean/Unit Head's Office on September 19, 2011 (FALL) and March 1, 2011 (SPRING)

The Definition of Instructional Equipment can be found in the California Community College's Budget and Accounting Manual. A copy of these definitions is on the PBC webpage:
http://grapevine/pbc/InstructionalEquipment.php

Name of Requestor: John Gonder

Division/Unit : BCATTS / Computer Networking Technology

Brief title of request (equipment or materials being requested must be similar, related or part of a system. Cisco Network Equipment Replacement

Request amount (unit cost and total cost including tax and shipping. Please include all costs including installation, modification to existing facilities to accomodate new equipment, etc.):
This should come from the vendor quote

Attach copy of quote(s), estimate(s) and requisition(s):

(Must attach quote & requisition; absence of either will delay processing)

Item (s) cost	$
Tax (.00975)	$
Shipping	$
Installation	$
Facilities Modification	$
Other	$
Total Cost	$ 54,559

Brief description of specific equipment or materials requested and what they will be used for: (include the # pieces being requested; i.e.: 10 crayola crayons, sky blue, etc. in 250 words or less)

Cisco routers, switches, Wireless access points
2 NetLab VMware image control system
4 Dell servers

Update and upgrade for equipment supporting CNT and Cisco classes. Most Cisco equipment is 10 years old. Upgrades are required for our Cisco Networking Academy program. Netlab equipment and Dell servers provide maintenance upgrade to existing facilities supporting CNT CS and CIS current and changing needs, as well as vastly improved flexibility in instantly changing computer operating systems and application sets to support multiple a varies classes on campus and 24-7 online.

Is this in your Program Review? Yes ■ No ☐

The constantly changing technology taught in these areas requires both continually updated and newly created classes to accomplish our state mandated training mission and that of the college, as well as current, full strength equipment to support today's applications and the high level of access and flexibility demanded by students and the curriculum for both face to face, and an increasing number of online and hybrid classes.

Is it a replacement? Yes ■   **Upgrade?** Yes■   **New technology?** Yes■

Please explain?

The project represents replacement of obsolete equipment, upgrade of current inadequate equipment, and net technology to more efficiently and economically extend the range and flexibility of the systems.

The majority of the Cisco equipment used by both Cisco and other CNT classes is well beyond end-of-life - much 10 years old. This is replaced in this project.

The Dell servers in the NetLab package are an upgrade to the computers currently supporting flexible online access.

The NetLab front end represents the next step in managing face to face, online, and hybrid access to a flexible array of both virtual and physical equipment (servers, routers, virtual machines) that leverages a modest amount of devices to serve, 24-7-365, a wide range of class and curriculum needs economically and efficiently.

Instructional and Service Impact

How will this item have a positive impact on instruction and/or teaching and learning in the classroom? Is this for use by the instructor or students, or both?

This is not an addition to a class. This is a required and basic infrastructure to continue to support classes in a manner that responds to current and anticipated needs. The impact, first, is to allow existing levels of classes to continue. Second, the complete system serves to provide flexibility in supporting updated and changing curriculum easily and quickly. Thirdly, the system provides virtualization - virtual machines - to take the place of physical computers, at lower cost, with lower energy use, less maintenance and configuration, in a way that allows the effect of completely changing the type, operating system and set of applications in a physical or virtual classroom instantly, and by schedule. Whereas, now, endless labor is required to accomplish a part of the task of providing flexible systems for multiple class requirements, this can now be set up once, for one system, and cloned instantly as many times as required. The system provides scheduled access with student appointments supporting 24-7-365 learning, and instant changover from one hour to the next for a 'fresh' set of computers and applications. This is the current state of computer instruction - cheaper, quicker, more dependable, more resiliant, with a smaller energy footprint.

Impact on Enrollment

Will the equipment impact enrollment, attract or increase the number of students participating in a course or program?

The CIS, CS and CNT programs are constantly updating to provide what students need today - not 12 or 18 months ago. The systems on which the curriculum depends must also provide what they need today. This system will enhance productivity of students, and attract and provide better instruction to a broader array of students. It is the standard of operation in our competitors' schools, and must be incorporated here for us to remain competitive and attractive.

Access

How does this item promote the principles of universal design, by providing opportunities for under-represented populations & accommodate students with diverse learning styles?

The flexibility in being able to provide a virtually unlimited variation in system images means that much more individual customization is possible. Very importantly, the ability of students to access, at any time, a system configured exactly the way it was in class, and to pause and continue work easily at the time they find most convenient, as well as to make mistakes, easily recover, and do work over provides a smoother path for those re-entering, or starting the technology path.

Outcomes

How will this equipment enable or enhance SLOs? What are the consequences related to learning outcomes if request is not funded?

The ability to easily track usage, student problems, student work, will enhance the ability to develop and implement SLOs in a traditionally difficult area - technology.

If equipment is not replaced and upgraded the ability to teach existing classes is put at jeopardy. If our level of technology is not keeping pace with that required to adequately teach the current topics, and compete with other colleges, the program will not be able to compete, nor serve the needs of our students.

Total Cost of Ownership (This is an attempt to identify what the ongoing costs of purchasing this equipment will be to the institution)

    a) **What is the lifespan of the equipment? 5 years? 10 years? 20 years?**

    b) **Is there sufficient current/planned space available for the storage and use of this equipment? If so, where will it be housed? If not, is there a proposed location and are there any costs associated with installation or modifications to the space?**

    c) **Are there operating costs and how will they be covered by the department?**

    d) **What will be required to maintain the equipment, such as regular servicing or upkeep? Who will perform maintenance, and what will the estimated costs be?**

The lifespan is a minimum of 5 years.

There is sufficient current space - it will fit in the space used by replaced items in the CNT classrooms. No significant modifications required.

Ongoing software maintenance will be covered with VATEA.

Visibility/Profile within Community

Is this a "flagship" item that will bring recognition/notoriety to the College or raise the stature of the program? Will it attract students and/or enhance the image of the College in the community because of its rare, one-of-a-kind status?

This is the kind of system that will be the minimum standard for programs like ours. It provides us with the ability to say we are definitely putting in place the kind of modern technology we purport to teach.

Commitment to Sustainability

How does this equipment exceed basic sustainability goals and encourage renewable resources at the College? Is the design/operation of this item in keeping with the College's commitment to sustainable practices?
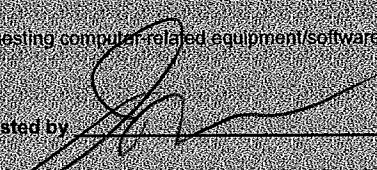
The equipment system replaces much more energy and heat intensive equipment, and provides virtualization for the energy equal of 2 entire classrooms of computers.

Health, Safety & Security

Does this equipment address any health, safety & security concerns? If so, please explain below.

Signatures (required)

(If requesting computer-related equipment/software, LPC IT Department Review is required.)

IT Department Signature _____

Requested by _____

Dean/ Unit Head _____ 9/23/11

Vice President _____ 9/26/11

LPC VP Business/President _____

LPC Business Office Use (Account Number) _____

NAME OF STAFF MEMBER	Wayne Phillips	STAFF OFFICE #	1546	DATE WRITTEN 08/18/11	DATE REQUIRED 09/15/11	

SUGGESTED VENDOR SIGMAnet
ADDRESS 4290 E. Brickell Street
CITY, STATE, ZIP Ontario, CA 91761
WEBSITE sigmanet.com

SALE REP.
PHONE 909.230.7500
EMAIL
FAX 909.937.9125

#	DESCRIPTION (PART # FIRST, PRODUCT, TYPE, SIZE, COLOR, STOCK NUMBER)	UNIT	QTY	UNIT PRICE	SUBTOTAL
1	Note: Prices reflect Cisco Networking Academy discount, ref quote Q596T02550				$ -
2					$ -
3	CISCO SYSTEMS 2901 W/2 GE 4 EHWIC 2 DSP 256MB CF 512MB DRAM IP	ea	8	$997.50	$ 7,980.00
4	Mfr Part #:CISCO2901/K9				$ -
5					$ -
6	CISCO SYSTEMS Cisco Catalyst 2960-24TT - Switch	ea	4	$647.50	$ 2,590.00
7	Mfr Part #:WS-C2960-24TT-L				$ -
8					$ -
9	CISCO SYSTEMS Cisco High-Speed WAN Interface Card - Expansion module	ea	8	$350.00	$ 2,800.00
10	Mfr Part #:HWIC-2T=				$ -
11					$ -
12	Cables - SIGMAnet	ea	16	$12.00	$ 192.00
13	Mfr Part #:CAB-SS-26MTC-02				$ -
14					$ -
15	LINKSYS Linksys E2000 Advanced Wireless-N Router	ea	8	$115.00	$ 920.00
16	Mfr Part #:LINKSYS ROUTER				$ -
17					$ -
18					$ -
19					$ -

			Subtotal	$ 14,482.00
			Tax $ 0 ◈	$ 1,267.18
			Shipping (if available):	
			Other misc costs (non taxable):	$ 120.00
ACCOUNT #	FUND	ORG	ACCT	PROGRAM
			TOTAL COST	$ 15,869.18

Version: 8July2011

[signature] Mary Malone 9/26/11

[signature] 9/26/11

Date: 9/19/2011   **QUOTATION**   **Quote: 5085566**

To: John Gonder   **From:** Arin Haddow
Las Positas Community College   SIGMAnet
3033 COLLIER CANYON RD   4290 E. Brickell St.
LIVERMORE CA, 94551   Ontario, CA 91761
Tel: 925-373-5886 Fax: 925-443-0742   Tel: Fax: 909-937-9125

Comments:

	Part Number	Manufacturer	Description	Qty	Unit Price	Amount
1	594201731	DELL COMPUTER	• Base Unit: PE R710 with Chassis for Up to 6, 3.5-Inch Hard Drives (224-8462) • Processor: PowerEdge R710 Shipping (330-4124) • Memory: 16GB Memory (4x4GB), 1333MHz Dual Ranked RDIMMs for 1 Proc, Advanced ECC (317-7306) • Embedded Broadcom, GB Ethernet NICS with TOE and ISCSI Offload Enabled (430-2970) • Embedded Broadcom, GB Ethernet NICS with TOE (430-1764) • E5530 Xeon Processor, 2.4GHz 8M Cache, Turbo, HT, 1066MHz Max Mem (317-1205) • PowerEdge R710 Heat Sink for 1Processor (317-1224) • Hard Drive: 500GB 7.2K RPM Near-Line SAS 6Gbps 3.5in Hotplug Hard Drive (342-2096) • Hard Drive Controller: PERC H700 Integrated RAID Controller, 512MB Cache, x6 (342-0649) • Power Saving BIOS Setting (330-3491) • No Operating System (420-6320) • NIC: Broadcom 5709 Dual Port 1GbE NIC w/TOE iSCSI, PCIe-4 (430-3260) • Modem: iDRAC6 Enterprise (467-8648) • CD-ROM or DVD-ROM Drive: DVD ROM, SATA, INTERNAL (313-9092) • Riser with 2 PCIe x8 + 2 PCIe x4 Slot (320-7886) • Documentation Diskette: Dell Management Console (330-5280) • Documentation Diskette: Electronic System Documentation and OpenManage DVD Kit (330-3485) • Additional Storage Products: 500GB 7.2K RPM Near-Line SAS 6Gbps 3.5in Hotplug Hard Drive (342-2096) • RAID 1 for H700, PERC 6/i, H200 or SAS 6/iR Controllers (341-8699) • 2/4-Post Static Rails (330-3488)	1	5355.00	5355.00

- Service: Dell Hardware Limited Warranty Extended Year (993-8458)
- Service: Dell Hardware Limited Warranty Plus On Site Service Initial Year (993-8447)
- Service: Non-Mission Critical: 4-Hour 7x24 On-site Service After Problem Diagnosis, 2 Year Extended (992-8122)

- Service:
- Non-Mission Critical: 4-Hour 7x24 On-site Service After Problem Diagnosis, Initial Year (993-2160)

- Service: ProSupport : 7x24 HW / SW Tech Support and Assistance , 3 Year (992-8322)
- Misc: High Output Power Supply Redundant, 870W (330-3475)
- Misc: Power Cord, NEMA 5-15P to C13, 15 amp, wall plug, 10 feet / 3 meter (310-8509)
- Misc: Power Cord, NEMA 5-15P to C13, 15 amp, wall plug, 10 feet / 3 meter (310-8509)

*Minimize your Capital Expenditures. **Ask about our Leasing Programs.***

Sub-Total	$5,355.00
Sales Tax	$468.56
Shipping	$20.00
Total	**$5,843.56**

Quotation is valid for 30 Days.
All prices are F.O.B. Destination, Freight Prepaid & Add.
Please feel free to call me if you have any further questions. Thank You.

SIGMAnet

We Take Care of IT™

Date: 9/19/2011	QUOTATION	Quote: 5085560

To: John Gonder
Las Positas Community College
3033 COLLIER CANYON RD
LIVERMORE CA, 94551
Tel: 925-373-5886   Fax: 925-443-0742

From: Arin Haddow
SIGMAnet
4290 E. Brickell St.
Ontario, CA 91761
Tel: Fax: 909-937-9125

Comments:

	Part Number	Manufacturer	Description	Qty	Unit Price	Amount
1	NETLAB-CCNX	NETLAB	NetLab Server Bundle -1U server appliance - 1 year full warranty (parts and labor) - NETLAB Academy Edition software -MySQL License -Software installation, configuration, and testing -1st year software maintenance and support (required annually)	1	6995.00	6995.00
2	131700	MBX SYSTEMS	NETLAB+ Appliance	1	0.00	0.00
3	NDG-CAS-11-A	SIGMAnet	Netlab - MBX NETLAB+ 1402 Appliance - RAID and Software Load US Operations.	1	0.00	0.00
4	NDG-NEWSYS-AE	NDG	Software and 1st year support	1	0.00	0.00

Minimize your Capital Expenditures. **Ask about our Leasing Programs.**

Sub-Total	$6,995.00
Sales Tax	$612.06
Shipping	$50.00
Total	**$7,657.06**

Quotation is valid for 30 Days.
All prices are F.O.B. Destination, Freight Prepaid & Add.
Please feel free to call me if you have any further questions. Thank You.