

Technology Objectives 2005-2006

Objective 1 Student Workstation Replacement & Cascading

Plan, evaluate, and recommend student workstation replacement to keep student computer equipment up-to-date in 06-07.

Allocation for 05-06 IE is recommended as follows:

253 GX520 computers to be purchased and installed to replace student PC's on second floor of Business building. Then the former Business building machines to be cascaded to replace and upgrade the oldest 250 computers on campus.

Contact: Steve Peterson
Budget: \$224,000, 45% 05-06 IBG (Instructional Block Grant), and 55% VTEA 06-07
Status: 70 of 253 Computers ordered, remainder to be ordered after June 12, 2006 Board of Trustees meeting.

Objective 2 Campus Wide Software Needs

Track and renew maintenance agreements and annual licenses for software shared campus-wide during 06-07, including Microsoft, Adobe applications, antiviral software, and more.

Contact: Steve Peterson
Budget: \$74,137, IBG 05-06
Status: 5 out of 14 contracts have been renewed/purchased. The remaining 9, including the Microsoft Campus Agreement, will be handled throughout the rest of the year as their due dates approach.

Objective 3 Faculty Curriculum Development Workstation Replacement

Replace outdated full-time faculty workstations and shared-use computers in various adjunct faculty work areas that require upgrades to support curriculum plans.

Contact: Steve Peterson
Budget: 0\$
Status: In every possible circumstance, need for a computer or for an upgrade, will be addressed by providing current high end CSIS student computers that have been replaced by new computers purchased as part of Objective 1. No additional fund is available for the purchase of new computers for either new or current faculty members.

Objective 4 Replacements for Smart Classroom & Smart Cart Equipment

Replace aging projectors, computers, and associated devices for classroom Audio/Visual equipment based on A/V technology replacement plan for 06-07.

Contact: Al DeSalles
Budget: IBG 05-06

| | |
|----------------------------|----------|
| Projectors 05-06 for 04/05 | \$15,662 |
| Projectors 05-06 (10) | \$29,000 |
| Bulbs 05-06 for 04/05 | \$16,338 |
| Bulbs 05-06 | \$12,000 |

| | |
|------------------|----------|
| Multimedia Carts | \$ 6,000 |
| Total | \$79,000 |

Status: \$32,000 of projectors and bulbs expense were moved forward from 04-05 to 05-06 due to cutbacks in 04-05 funds. This year's plan includes purchasing 2 new MM carts and also 3 projectors to replace projectors on 3 existing carts that are checked out to faculty by Media Services. Additionally, 10 ceiling-mounted projectors in classrooms will be replaced.

Objective 5 Campus Wide Assistive Technology

Contact: Ellen Cutler
 Budget: \$6,000, IBG 05-06
 Status: Miscellaneous software/equipment to be purchased throughout the year to ensure the compliance of technology accessibility requirements for disabilities.

Objective 6 Department Instructional Technology Needs

Contact: Steve Peterson
 Budget: \$16,337, IBG 05-06
 Status: Implement long belated software upgrade needs for Design Technology.

Objective 7 Occupational Program Technology Projects funded via VTEA

Technology projects funded as part of the occupational program VTEA awards. For detailed information, contact the VTEA program coordinator.

Contact: John Gonzalez
 Budget: \$340,969.64, VTEA 05-06
 Status: Almost all technology implementation completed. Virtual Lab Project in progress.

| Department | Description | Amount | Subtotal/Total |
|--------------------------|-----------------------------------|-------------|---------------------|
| Design Technology | 35 dell workstations | \$92,367.99 | |
| | 125 Deep Freeze Software | \$2,243.29 | |
| | Network Server | \$5,401.68 | \$100,012.96 |
| Communication | CLP Audition 1.5 Windows | \$2,078.16 | |
| | A4 Audition 1.5 CD | \$42.37 | |
| | Dell Laptop Inspiron 6000 | \$786.53 | |
| | LaCie FireWire 500GB External | \$435.21 | \$3,342.27 |
| CSIS | FireWire 400/800 | \$435.21 | |
| | NovaNet 9 Master Server | \$3,844.46 | |
| | Vex Robotics Starter Kit | \$815.42 | |
| | Dell PowerEdge 1800 | \$5,680.66 | |
| | 11th Annual Tech Ed. Conf. & Exp. | \$125.00 | |
| | Dell PowerEdge 2850 | \$4,005.92 | |
| DSPS | 4 Presentation Pilot Pro | \$302.88 | |
| | Virtual Computer Lab | \$78,785.47 | \$93,559.81 |
| | HP Laser Jet 5100 | \$2,950.30 | |
| | Kurzweil 3000 Prof Color v9 | \$1,542.56 | |
| | iMac G5 2.1 ghz | \$2,162.78 | \$6,655.64 |

| | | | |
|--------------------|--------------------------------|--------------|---------------------|
| Fashion | Tukatech software | \$3,788.76 | |
| | CAD Printer and 3-year support | \$2,884.25 | |
| | Optiplex GX280 | \$978.95 | \$7,651.96 |
| Photography | 40 PowerMac G5 Dual 2 Ghz | \$121,667.00 | |
| | 3 PowerBook 15" 1.67 Ghz | \$8,080.00 | \$129,747.00 |
| | | | \$340,969.64 |

Objective 8 Campus-wide infrastructure equipment renewal plan

Identify and resolve network switch and power protection expansion needs to enhance overall network services performance and reliability. The proposal for this year includes switch expansion for the AET site and UPS protection for the routing devices in various campus network closets, starting in the Business building.

Contact: Bob Dammer
 Budget: \$30,000, OBG (Onetime Block Grant) 04-05
 Status: UPS units have been purchased and installed in Media Center telephone equipment control room, Business Building, Science Building, and Counseling Complex. The AET network was expanded to include an additional 48 gigabit Ethernet ports.

Objective 9 Microsoft Windows servers 2003 replacement plan

Replace mission critical (over four years old) Windows server hardware and upgrade Windows server 2000 software to Windows Server 2003. These servers include SMS, domain controllers, Exchange, print servers, and Helpdesk Remedy server. The used servers can be cascaded to replace servers that are over seven years old, and for which replacement part options are limited.

Server Hardware

- SMS 2003
- Windows 2003 Server (domain upgrade) [2]
- Exchange 2003 e-mail server upgrade
- Replace BISHAMON site server [out-of-warranty]
- Airport campus site server (cascade from upgrades above)
- Print Server - BEETHOVEN server [out-of-warranty]
- Intranet - BUDDHA server [out-of-warranty]
- Remedy upgrade - HELPDESK1 server [out-of-warranty]

Contact: Bob Dammer
 Budget: \$80,000, OBG 04-05.
 Status: All replacement hardware has been purchased and received. The domain controllers, print server, e-mail server, and site server have been installed. The SMS server hardware is installed and the software implementation is in progress. The remaining server installations are scheduled for Fall 06.

Objective 10 Evaluate and develop plan to implement campus-wide remote system management tools for Windows client workstations

Analyze, evaluate, and implement a cost-effective solution to increase the productivity of IT support staff by utilizing software to remotely install system security patches, distribute new software packages, inventory networked hardware/software, and manage desktop computers.

This effort can potentially also facilitate the process to upgrade the operating system software for workstations campus-wide.

Contact: Bob Dammer
Budget: \$40,000, OBG 04-05.
Status: Remote desktop management solutions were analyzed and evaluated. It was determined that the cost of purchasing and fully implementing a leading-edge remote desktop management system was prohibitive. The Network Services staff is currently working to implement SMS 2003 for software distribution, updates, and inventory. The staff will also evaluate and work toward the implementation of remote desktop management features built into current versions of Microsoft Operating Systems.

Objective 11 Expand the functionality of WebISIS and Internet based services, continued from 04-05.

Analyze, design, and develop further functions for student and faculty portal to expand the functionality and technological capabilities. Incorporate Early Alert System and Curriculum Approval Work Flow System into the production environment when possible.

Contact: Frank Wu
Budget: MIS development and possible Title V pending
Status: Phase 1, include Oracle technology environment upgrade and new version of self-service systems, is complete. New version of WebISIS is in pre-production phase. Early Alert System is pending on Title V scope of project.

Objective 12 Provide technology support to implement SMC website re-engineering project based on the SMC Website Workgroup and District's final recommendation, continued from 04-05

A website workgroup was formed based on 04-05 objectives and a recommendation document was completed and proposed to the Technology Planning Committee (TPC).

Contact: Jocelyn Chong
Budget: Pending
Status: The direction and implementation plan is submitted by the TPC and then supported by the DPAC to the District. The implementation plan is pending for budget approval.

Objective 13 Work with the Facility team to plan Information Technology Data Center move.

The capacity of Drescher Hall 306 data center has reached its physical limits. The UPS was upgraded once and current power loads have again exceeded the 70% safety mark. The air conditioning unit is not sufficient to stem the heat generated by existing equipment and consistently requires supplementation by general building air conditioners. There is no cost effective solution for establishing a reliable fire protection system for that room. A proposal has been submitted by the Facilities to move the data center to the Drescher Hall first floor.

Contact: Jocelyn Chong
Budget: Part of College Facility Master Plan
Status: Detail project plan presented by the Architecture consulting firm, estimated completion time 8/08.

Current status: Project is in the implementation phase. The project team is finalizing site plan and floor plan for the IT office area, data processing production area, and the data center. The detail mechanical, electrical, equipment location, and network design will be developed in the next phase.

Objective 14 Streamline IT support procedures and Implement tech-knowledge center website to leverage technology knowledge through self-serve internet functions, continued from 04-05.

Enhance IT efficiency by analyzing, defining, and implementing an IT support structure via web-based, self-serve support functions.

Contact: Jocelyn Chong
Budget: User support development
Status: Prototype tech-knowledge center page completed. Implementation support plan is incomplete due to the following pending issues:

1. Cost and implementation effort of enterprise CRM (Customer Relation Management) system.
2. Uncertainty of the scope of the project. The CRM can be extended as a campus-wide support infrastructure or can be implemented solely focused on technology support issues.
3. Lack of time commitment from all areas to focus on support issue.
4. Lack of resource dedicated to customer support functions.

DPAC's recommendation will be helpful to provide direction for TPC to continue the planning and implementation effort.

Objective 15 Implementation of multi-tiered SpyWare/AdWare protection functions

Analyze, evaluate, and implement cost effective enterprise solutions for improving the productivity of District computer systems and the security of data by utilizing gateway server and multi-tiered technology to protect SMC computers from intrusive Internet pest software.

Contact: Bob Dammer
Budget: \$50,000, OBG 04-05 funds.
Status: Anti-Spyware technology was evaluated. It was determined that the most cost-effective solution was upgrading the annual anti-virus software agreement with McAfee to include their Total Protection Enterprise Suite and Secure Web Gateway Appliance. The gateway appliance is currently being installed. The desktop protection software will be remotely installed to all district computers during Summer 06.

Objective 17 Voice Over IP implementation – continued from 04-05

Perform post-production support and documentation of support procedures and a backup/recovery plan for the VOIP implementation at the Bundy (Airport West) campus. Also, evaluate the feasibility of implementing the technology in new facilities at the main campus.

Contact: Bob Dammer
Budget: Mainly Network Services development, funded by the Facility new building plan
Status: VoIP with unified messaging was successfully installed at the new SMC Airport Campus. VoIP technology will be introduced on the Main Campus with completion of the Theatre Arts and Liberal Arts North buildings during Summer 06.

Objective 18 Wireless implementation – continued from 04-05

After successful implementation of wireless access in the south side of the Library Building, there are plans to extend the function to cover the entire Library area and other outdoor locations.

Contact: Bob Dammer
Budget: Facility building plan or categorical funds.
Status: Wireless Internet access for Faculty, Staff, and Students was initially installed and tested in the Library. Upon successful completion of the Library pilot program, wireless network access has been expanded to include the Cayton Center, Cafeteria, Faculty/Staff lounge (Bread Factory), and AET Campus. The IT staff is currently working on installing outdoor wireless access points in ClockTower area of the Main Campus.

Objective 19 Develop a read-only database to support Institutional Research and user data query needs.

A read-only database will be defined and implemented to support research and establish an effective, accessible tool to meet researchers' data query needs. The initial available data will include at least 5 years of all Cal. State Chancellor's Office defined data elements and other necessary data identified internally by the SMC researcher(s).

Contact: Frank Wu
Budget: MIS development
Status: Completed. Future plan includes further function and data availability for the Campus Research personnel and data users.