

NMSU ALAMOGORDO TECHNOLOGY PLAN

June 2016

Executive Overview

Purpose

The purpose of Information Communication Technology (ICT) is to design, implement, maintain, and procure technology that will serve the needs of the students and support the primary administrative and business functions of New Mexico State University Alamogordo (NMSU-A). As part of technology planning, NMSU-A strives to complete relevant IT projects and to research new technology that will benefit the campus and system.

IT Staffing

NMSU-A has committed the following to the staffing of IT:

- 1) *IT Director:* The IT Director is in charge of technology on the NMSU-A campus. The SAI maintains the integrity of the campus network including upgrading the NOS and backbone, working with the Las Cruces campus ICT department, maintaining backups, and coordinating and supervising the activities of the other IT staff.
- 2) *Computer Support Personnel:* The computer support personnel are responsible for running network cable, repairing, and setting up and upgrading campus computers. The computer support personnel are also in charge of the computer labs and the lab aides.
- 3) *Multi-Media Specialist:* The specialist is responsible for assisting instructors and students with online and other distance education technologies.

Campus Infrastructure

The NMSU-A campus is tied together by a Cisco 3845-MB router running through Century Link at 30mbps to NMSU Las Cruces with a cost of \$3,563.00 per month. A gigabit fiber feed switch is connected to the router that feeds switches in all buildings.

In spring 2011, a student technology fee was implemented at \$2.00 per credit hour to assist the university in upgrading and replacing student technology.

All buildings on the campus (except Tays Center) have category 6 LAN cable. Tays has category 5 LAN cable. Wireless access is available in all buildings.

A. New building infrastructure:

1. New building infrastructure will be handled by PPD, installed by ICT, and funded by new construction money, grants, or bonds.
2. Upkeep and replacement of LAN cable is the responsibility of ICT and funded by ICT, grant and/or student technology fees.
3. Upkeep and replacement of projectors are the responsibility of ICT and funded by ICT and/or student technology fees.
4. Purchase/upkeep of technology by departments/divisions is funded by those areas. All departments/divisions will submit to the IT Committee a 5-year plan of replacement of technology.

5. After grant funds come to an end, all technology repairs and upgrades become the responsibility of the department using the technology.
6. ITV systems are maintained and operated by the AV department.

B. Office technology:

1. Copy machines for divisions are handled by the NMSU-A Business Office. All repairs and maintenance are the responsibility of each division.
2. All purchases and repairs of area printers are funded by the requesting department.

IT Plan Implementation for FY 09-10

- Media Center purchased a new video camera.
Status: Completed Fall 2009
Cost: \$3,749.95 (funding source Media Center)
- Campus president and the head of the IT department spoke to Student Government about implementing a \$2.00 per credit campus technology fee to help in replacing and purchasing new technology equipment for students.
Status: Survey completed by students Spring 2009; fee approved by Regents Spring 2010; fee implemented summer 2010.
- Media Center replaced projector system with large screen television in the music room.
Status: Completed Summer 2010
Cost: \$2,876.89 (funding source ProTech & Media Center)
- Replaced 12 computers in CB 402.
Status: Completed Fall 2009
Cost: \$15,359.76 (funding source Title V)
- Replaced 15 computers in ASC.
Status: Completed Fall 2009
Cost: \$20,170.80 (funding source Title V)
- Installed three new wireless access points in Science Center.
Status: Completed Fall 2009
Cost: \$3,810.00 (funding source ICT)
- LTC purchased 20 laptops for faculty check out.
Status: Completed Fall 2009
Cost: \$30,616.00 (funding source Title V)
- Increased internet bandwidth from 3 MBPS to 10 MBPS.
Status: Completed Fall 2009
Cost: \$3,533.00 per month (funding source ICT)
- Purchased anti-spyware license to install on campus computers.
Status: Company no longer supporting software
Cost: \$444.69 (funding source ICT)
- E-mail system was moved to a new server.
Status: Completed Spring 2009
- Installed a new file server to replace the three old servers.
Status: Completed Spring 2010
Cost: \$14,487.12 (funding source ICT and Title V)

- Replaced network printer in SC 104.
Status: Completed Spring 2010
Cost: \$1,472.63 (funding source ICT)

IT Plan Implementation for FY 10-11

- Moved ProTech Rooms 102 and 105 from Windows XP to Windows 7.
Status: Project put on hold per request of Computer Science Coordinator.
Cost: MLA (funding source ICT)
- Redesigned SC103 into a multi-use classroom.
Status: Completed Summer 2010
Cost: \$13,932.00 (funding source BR&R)
- Media Center upgraded studio lights.
Status: Completed Fall 2010
Cost: \$4,470.00 (funding source Media Center)
- Replaced 24 computers in ABE/Trades lab at Tays Center.
Status: Completed Spring Semester 2011
Cost: \$40,068.48 (funding source G. O. Bond)
- Evaluated instructional technology across the campus to determine potential upgrades of equipment using Student Technology funds.
Status: Completed Spring 2011
- Computer labs upgraded from Microsoft Office 2007 to Microsoft Office 2010.
Status: Completed Summer 2011
Cost: MLA (funding source ICT)
- Moved campus network from NetWare to Windows Server 2008.
Status: Completed Summer 2011
Estimated Cost: \$594.00 (funding source ICT)
- Converted Tays Center to wireless access.
Status: Completed Fall semester 2011
Cost: \$26,953.63 (funding source BR&R)
- Provided technical assistance for the Mescalero Education Center.
Status: Completed
Cost: none
- Replaced instructional computers in CB 601, 603, 701, 703, and 704, SC 115, 118, and 125.
Status: Completed May 2011
Cost: \$6,906.90 (funding source VPAA and student technology fee)

- Student Technology Fee Use fiscal year 2010 – 2011.
Increased internet bandwidth. Cost: \$11,000.00 per year to assist.
Replaced 10 computers in Testing Center. Cost: \$7,413.00
Purchased Minitab Stat Software. Cost: \$1,296.00 per year.
Purchased AutoCAD License. Cost: \$5,400.00 per year.
- Purchased 24 laptop computers and cart for developmental math.
Status: Completed Summer 2011
Cost: \$27,251.32 (funding source Title V)

IT Plan Implementation for FY 11-12

- Purchased 24 laptops for developmental reading/writing.
Status: TBA
Cost: \$26,000.00 (funding source Title V)
- Replaced 3 wireless access points in CB Area.
Status: Completed Summer 2011
Cost: \$4,071.66 (funding source ICT)
- Replaced 29 computers in SC 135 lab.
Status: Completed Summer 2011
Estimated Cost: \$37,000.00 (funding source student technology fee)
- Divisions, Student Services, PPD, Academic Support, Library, Business Office and HR must submit five-year repair and replacement plans for technology used by employees. Plan must include current configurations, timelines, and estimated costs.
Status: TBA
- Designed and implemented wireless scheme for Rohovec.
Status: Completed Summer 2011
Estimated cost: \$16,000.00 (funding source BR&R funds)
- Met with Department/Division Heads to discuss technology upgrades in their areas.
- Upgraded campus internet bandwidth from 10 Mbps to 30 Mbps.
Status: Completed Fall 2011
Cost: \$6,281.00 (funding source student technology fee)
- Replaced instructor computer in ProTech Room 105.
Status: Completed Spring 2012
Cost: \$859.60 (funding source student technology fee)
- Replaced wireless access point in Student Union Bldg.
Status: Completed Spring 2012
Cost: \$1,352.00 (funding source ICT monies)

- Installed 10 computers for STEM staff.
Status: Completed Summer 2011
Cost: (funding source STEM grant)

IT Plan Implementation for FY 12-13

- Replaced 20 computers and RAIDs in Mac lab.
Status: Completed Summer 2012
Cost: \$111,940.00 (funding source STEM grant)
- Replaced 23 Computers in SC 104.
Status: Completed Fall 2012
Cost: \$24,682.45 (funding source student technology fee)
- Evaluated instructional technology for replacement.
Status: Completed
Cost: (funding source student technology fee)
- Met with Department/Division Heads to discuss technology upgrades in their areas.
- Replaced feed and 7 LAN switches in Science Center.
Status: Completed Summer 2012
Cost: \$21,332.58 (funding source ICT monies)
- Replaced LAN feed and student union switches.
Status: Completed Summer 2012
Cost: \$12,000.00 (funding source student technology fee)
- Replaced 29 computers in SC 135.
Status: Completed Summer 2012
Cost: \$27,750.10 (funding source STEM grant)
- Installed 4 new computers in HSSE 119 for tutoring lab.
Status: Completed Summer 2012
Cost: \$3,000.00 (funding source Title V grant)
- Installed 25 new computers in CB 402.
Status: Completed Summer 2012
Cost: 13,080.50 (funding source Title V grant)
- Installed 23 new computers in CB 602.
Status: Completed Summer 2012
Cost: 12,034.06 (funding source Title V grant)
- Replaced 25 laptops in SC 130.
Status: Completed Fall 2012
Cost: 29,289.00 (funding source STEM grant)

- Installed fiber from the Student Union Bldg. to the Rohovec.
Status: Completed Fall 2012
Cost: \$15,000.00 (funding source BRR)
- Purchased 7 Acrobat sight-impaired screens.
Status: Completed Spring 2013
Cost: \$18,530.00 (funding source student technology fee)
- Replaced 2 computers in Language Lab.
Status: Completed Fall 2012
Cost: \$1,310.40 (funding source student technology fee)
- Purchased server for student needs
Status: Completed summer 2012
Cost: 13,772.72 (funding source student technology fee)
- Renewed Minitab Stat software
Status: Completed Spring 2012
Cost: \$1,296.00

IT Plan Implementation for FY 13-14

- Replaced 25 computers in TE 105.
Status: Completed Fall 2013
Cost: \$25,993.00 (funding source student technology fee)
- Replaced 13 computers in ASC
Status: Completed Summer 2014
Cost: \$13,772.72 (funding source student technology fee)
- Evaluated instructional technology for replacement.
Status: Completed Fall 2013
Cost: (funding source student technology fee)
- Meet with Department/Division Heads to discuss technology upgrades in their areas.
Status: Completed
- Replaced 15 switches in ProTech.
Status: Completed Fall 2013
Cost: \$27,903.97 (funding source state monies)
- Installed 48-Port PoE switch in Science Center.
Status: Completed Fall 2013
Cost: \$3,191.98 (funding source state monies)
- Installed 48-Port PoE switch in HSSE.
Status: Completed Fall 2013
Cost: \$3,191.98 (funding source state monies)

- Replaced 3 switches in HSSE.
Status: Completed Summer 2013
Cost: \$5,210.36 (funding source student technology fee)
- Replaced switch in PPD.
Status: Completed Fall 2013
Cost: \$999.19 (funding source student technology fee)
- Replaced 3 switches in Library.
Status: Completed Fall 2013
Cost: \$6,746.75 (funding source state monies)
- Replaced 4 switches in Tays Center.
Status: Completed Fall 2013
Cost: \$5,135.15 (funding source state and student technology fee monies)
- Replaced switch in Art Building.
Status: Completed Fall 2013
Cost: \$999.19 (funding source state monies)
- Replaced wireless access point in Art Building.
Status: Completed Fall 2013
Cost: \$ 692.62 (funding source ICT monies)
- Replaced LAN cable in HSSE.
Status: Completed Summer 2013
Cost: \$2,300.00 (funding source ICT monies)
- Move Data Center in Administration.
Status: Completed Spring 2014
Cost: TBA (funding source state monies)
- Renew Minitab Stat software
Status: Completed Spring 2014
Cost: \$1,296.00 (funding source student technology fee)
- Update Data Center in Student Services.
Status: Completed Fall 2014
Funding source G. O. Bond monies
- Purchased server for student needs
Status: Completed Summer 2014
Cost: \$13,772.72 (funding source student technology fee)
- Purchased 4 wireless access points
Status: Completed Spring 2014
Cost: \$3,371.72 (funding source student technology fee)

IT Plan Implementation for FY 14-15

- Evaluate instructional technology for replacement.
Status: Complete
Cost: TBA (funding source student technology fee)
- Meet with Department/Division Heads to discuss technology upgrades in their areas.
Status: Complete
- Renew Geometers Sketchpad
Status: Completed Spring 2014
Cost: \$485.44 (funding source student technology fee)
- Purchased SQL Server for use with other software package
Status: Completed Fall 2014
Cost: \$222.64 (funding source student technology fee)
- Upgraded TutorTrac software
Status: Completed Fall 2014
Cost: \$2,397.00 (funding source student technology fee)
- Purchased Who's Next Student Tracking software
Status: Completed Fall 2014
Cost: \$8,574.95 (funding source student technology fee)
- Replace laptops in CB 704
Status: Complete
Cost: \$23,019.04 (funding source student technology fee)
- Upgrade ADA software.
Status: Complete
Cost: \$9,810.35 (funding source student technology fee)
- Replace TV and mount in ProTech.
Status: Complete
Cost: \$1,378.35 (funding source student technology fee)
- Renew Minitab.
Status: Complete
Cost: \$1296.00 (funding source student technology fee)

IT Plan Implementation for FY 15-16

- Renew Who's Next Software
Status: Complete
Cost: \$750.00 (funding source student technology fee)

- Replace 14 Instructional computers in Classroom Building, Science Center and Allied Health.
Status: Complete
Cost: \$14,243.46 (funding source student technology fee)
- Replace 5 computers in Student Service Lab.
Status: Complete
Cost: \$3,510.40 (funding source student technology fee)
- Purchased 4 iMac's, 2 form SC 104 and 2 for Library.
Status: Complete
Cost: \$5,472.00 (funding source student technology fee)
- Replace 10 computers in Testing Center.
Status: Complete
Cost: \$7,673.70 (funding source student technology fee)
- Purchase 20 video cards for instructional computers.
Status: Complete
Cost: \$2,024.50 (funding source student technology fee)
- Renew Minitab.
Status: Complete
Cost: \$1296.00 (funding source student technology fee)
- MESH replaced 5 instructor computer.
Status: Complete
Cost: \$4,778.60 (funding source MESH monies)
- Purchased 3 wireless connections for Science Center classrooms.
Status: Complete
Cost: \$299.95 (funding source student technology fee)
- Upgraded data center in Faculty Office.
Status: Complete
Cost: Used ICT inventory.

IT Plan Implementation for FY 16-17

- Replaced projector in SC 114.
Status: Complete
Cost: 868.49 (funding source STEM Grant)
- Upgrade wireless controller software to accommodate new wireless technology.
Status: In progress
Cost: TBD

- Evaluate classroom projectors and screens.
Status: TBA
Cost: TBA

- Evaluate wireless access points for replacement.
Status: TBA
Cost: TBA

- Evaluate computers in Library student lab for replacement.
Status: TBA
Cost: TBA

IT Plan Implementation for FY 17-18

- Evaluate instructional technology for replacement.

- Meet with Department/Division Heads to discuss their 5-year technology plan.

- Purchase new data server for campus.
Status: TBA
Cost: TBA

- Upgrade NOS from Windows Server 2008 to Windows Server 2012
Status: TBA
Cost: TBA

IT Plan Implementation for FY 18-19

- Meet with Department/Division Heads to discuss their 5-year technology plan.
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- Evaluate instructional technology for replacement.

- Evaluate computers in CB 402 and CB 602 for replacement.

Department and Division Technology Replacement Schedule

Arts & Science Division Technology Replacement:

- Fiscal year 2015-2016 replaced 6 division computers.

Career & Technology Division Technology Replacement:

- Fiscal year 2015-2016 replaced 5 division computers.
- Fiscal year 2016-2017 4 computers scheduled for replacement.
- Fiscal year 2017-2018 5 computers scheduled for replacement.

President's Office:

- Fiscal year 2015-2016 two department computers replaced.
- Fiscal year 2016-2017 two computer upgrades needed.
- Fiscal year 2018-2019 one computer upgrade needed.
- Fiscal year 2019-2020 two computer upgrades needed.

Vice President of Academic Affairs:

- Fiscal year 2015-2016 all department computers replaced.
- Fiscal year 2018-2019 all department computers scheduled for replacement.

Vice President of Student Services:

- Fiscal year 2015-2016 4 department computers replaced.
- Fiscal year 2016-2017 4 department computers scheduled for replacement.
- Fiscal year 2017-2018 4 department computers scheduled for replacement.
- Fiscal year 2018-2019 4 department computers scheduled for replacement.

Vice President of Business:

- Fiscal year 2016-2017 replace 5 computers.
- Fiscal year 2017-2018 replace 1 computer.
- Fiscal year 2019-2020 replace 1 computer.
- Fiscal year 2020-2021 replace 5 computers.

Library:

- Fiscal year 2015-2016 all department computers replaced.
- Fiscal year 2019-2020 all department computers scheduled for replacement.

NMSU-A Disaster Recovery Plan

The purpose of a Disaster Recovery Plan is to be able to respond to a disaster that would significantly disrupt critical and non-critical computing systems and the daily business of the campus.

The recovery process would rely on vendors to quickly provide replacement technologies. In the event replacements cannot be procured in a timely manner, equipment substitutions will be made until the proper equipment is received.

Data recovery relies entirely on backup tapes used to store data from server hard drives. Any data stored on a user's personal drive is the responsibility of the user to back-up in the event of a failure.

Data on tape is stored off campus.

NMSU-A Computer Salvage Plan

All computers that go to salvage must go through ICT where a DOD wipe is performed to erase all data.

NMSU-A Institutional Data Security

All data located on network servers is accessible only by those persons who have rights to access such data. If rights to data are requested by any user, a call is made to their supervisor to authenticate the request before rights are granted.

Data stored on desktop computers is at a higher risk of being stolen, so users must take measures to ensure data is not copied or stolen. To help ensure this, every user is required to enter a password anytime a computer is booted up or restarted. When a computer is taken out of service, it is wiped according to federal guidelines.

Student Lab Technology Equipment

Science Center 104	Dell OptiPlex 990	23	October 2012
Science Center 135	Dell OptiPlex 390	29	July 2011
Science Center 103	Dell Latitude E5520	24	April 2011
Science Center 134	Dell Precision M 4700	25	August 2013
Pro Tech 105	Dell OptiPlex XE2	25	December 2013
Pro Tech 102	Dell OptiPlex 755	20	March 2009
Learning Technology Centr	Dell Precision T3400	15	June 2009
Classroom Building 402	Dell OptiPlex 390	25	August 2012
Testing Center	Dell OptiPlex 3020	10	November 2015
Academic Support Center	Dell OptiPlex 3020	13	April 2014
Library	Dell OptiPlex 390	20	July 2011
Classroom Building 702	Dell Latitude E5420	30	July 2011
Classroom Building 602	Dell OptiPlex 390	23	August 2012
Classroom Building 201	Dell Precision T3400	1	May 2009
Science Center 130	Dell Latitude E6530	24	August 2012
Nursing	Dell Latitude E5420	24	September 2012
HSSE Lab	Dell OptiPlex 390	4	March 2012
Language Lab	Dell OptiPlex 390	2	May 2012
Classroom Building 704	Dell Latitude E5500	21	September 2008

Instructional Technology Equipment

CB 701	Dell OptiPlex 3020	1	September 2015
CB 703	Dell OptiPlex 3020	1	September 2015
CB 704	Dell OptiPlex 3020	1	September 2015
CB 705	Dell OptiPlex 3020	1	September 2015
CB 601	Dell OptiPlex 3020	1	September 2015
CB 603	Dell OptiPlex 3020	1	September 2015
CB 801	Dell OptiPlex 3020	1	September 2015
SC 115	Dell OptiPlex 3020	1	September 2015
SC 125	Dell OptiPlex 3020	1	September 2015
SC 118	Dell OptiPlex 3020	1	September 2015

Classroom Equipment

Classroom	Projector	Elmo	TV	LG TV Monitor	DVD	VCR
CB 704	Yes	Yes	Yes	No	Yes	Yes
CB 802	Yes	No	Yes	No	Yes	Yes
CB 705	Yes	No	Yes	No	Yes	Yes
CB 801	Yes	No	Yes	No	Yes	Yes
CB 703	Yes	No	Yes	No	Yes	Yes
CB 701	Yes	No	Yes	No	Yes	Yes
CB 604	Yes	No	Yes	No	Yes	Yes
CB 602	No	No	No	Yes	No	No
CB 402	No	No	No	Yes	No	No
CB 601	Yes	Yes	Yes	No	No	Yes
SC 360	Yes	No	Yes	No	Yes	Yes
SC 361	Yes	No	No	No	No	No
SC 364	Yes	No	No	No	No	No
SC 363	Yes	No	No	No	No	No
SC 270	Yes	No	Yes	No	Yes	Yes
SC 260	No	No	Yes	No	No	No
SC 261	Yes	No	No	No	No	No
SC 109	Yes	Yes	No	No	No	No
SC 114	Yes	Yes	No	No	No	No
SC 115	No	Yes	No	Yes	No	No
SC 118	Yes	Yes	No	No	No	No
SC 122	Yes	Yes	No	No	No	No
SC 125	No	Yes	No	Yes	No	No
SC 127	Yes	Yes	No	Yes	No	No
SC 130	Yes	Yes	No	Yes	No	No
SC 134	Yes	Yes	No	Yes	No	No
SC 135	No	Yes	No	Yes	No	No
SC 103	No	Yes	No	Yes	No	No