



Trinidad State Junior College
Technology Master Plan

Compiled by Doug Bak, Director of Technology
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Technology Master Plan For Trinidad State Junior College

Introduction

Trinidad State Junior College's mission is to enrich the academic, technical, and cultural life of our diverse community. We are committed to offering traditional and alternative approaches to education, providing quality instruction, and promoting lifelong learning. The Information Technology (IT) services supports the mission by providing state of the art hardware and resources utilizing general funds as well as seeking to take advantage of state and federal grant programs whenever possible.

Grant funding, over the past few years, has allowed TSJC to make several upgrades to the technology infrastructure. These new technologies and equipment provide the foundation for the institution for the next several years as we strive to support the needs of students, faculty, and staff. Technology resources at both the Trinidad and Alamosa campuses are often utilized to their full capacity. Our faculty relies on current instructional technology tools to enhance teaching and research. Our students expect mobility and flexibility in their use of technology for classes, and in their electronic interactions with the College. Our staff needs specific, timely, and accurate information to support their work. TSJC's Technology Master Plan will provide guidance for future initiatives necessary to optimize student access, to promote student success, and to provide operational excellence to the communities we serve.

Plan Limitations

Technology is a dynamic environment. The rapid change in both hardware and software make it difficult to maintain standard platforms. With every change and upgrade comes a need to refresh or retrain faculty, staff, and students to maintain efficiencies. The availability of funding may change annually, which can limit access to proper equipment, training, and support. The main factor for technology change at TSJC is the College's commitment to student access, student success, and operational excellence. The purpose of this plan is to provide technology solutions that will have the greatest impact to our constituents. It is meant to be a guide, and as such, should be reviewed as often as is needed to ensure that our commitment to provide the technological needs faculty, staff, and students are met.

Current Technology Infrastructure

Today at TSJC, there are over 700 computers and a total of 22 virtual servers serving 2 campuses. In addition, for the two campuses, 53 classrooms are identified as being technology enhanced and 13 classrooms have Podcasting capabilities. We have a total of 12 Video Conferencing rooms. The demand on technology continues to grow and new innovations and platforms require higher levels of sustained reliable interconnectivity.

The College must replace its computers in a timely fashion. TSJC has a Technology Replacement Schedule in place with the goal of replacing/updating all hardware (computers) every four years. Likewise, TSJC needs to maintain the latest version of all software in order to stay relevant. See Attachment A for TSJC's Technology Replacement Schedule.

Computer Labs

The table below identifies the computer labs (and mobile labs) available for student use on the Trinidad and Alamosa (Valley) campuses as well as the number of computers available in each lab.

Trinidad Campus Labs

| Location | Computers |
|--|-----------|
| Banta 101 (Automotive) | 4 |
| Banta 307 (Gunsmithing) | 12 |
| Banta 305 | 4 |
| Berg 305 | 20 |
| Berg 307 | 21 |
| Boyd 119 (Macintosh computers) | 14 |
| Davis 115 | 29 |
| Davis 234 (Macintosh computers) | 16 |
| Davis Mobile Lab 133 (Laptop cart) | 10 |
| Davis Mobile Lab 222 (Laptop cart) | 20 |
| IT Mobile (Laptop cart) | 30 |
| Library 218 (Open Lab – receives recycled PCs from updated labs) | 8 |
| Library – Math Lab (Laptops) | 10 |
| Library – Student Success Center | 12 |
| Library – Writing Center | 11 |
| Mining Tech Simulation Lab | 9 |
| Mullen 305 (Open Lab – receives recycled PCs from updated labs) | 15 |
| Residence Hall – Huggins (Open Lab – receives recycled PCs from updated labs) | 4 |
| Residence Hall – O'Conner (Open Lab – receives recycled PCs from updated labs) | 5 |

Valley Campus Labs

| Location | Computers |
|-------------------------------|-----------|
| SLV 114 | 5 |
| SLV 149 (Macintosh computers) | 10 |
| SLV 216 | 21 |
| SLV 241 | 21 |
| SLV 243 | 20 |
| SLV 247 | 18 |
| SLV 103SC | 20 |
| Mobile Lab | 15 |

Technology Enhanced Classrooms

Technology enhanced classrooms are equipped with a computer/smartmonitor, DVD/VHS players, Digital Document cameras, ceiling mount projector or large flat panel displays, and sound system. All rooms have the availability to encompass the use of “i-Clickers: a classroom response system” for testing and assessment needs.

| |
|--|
| Trinidad Campus: 33 rooms available |
|--|

| |
|--|
| Valley Campus: 20 rooms available |
|--|

Podcasting or Live Video Capture Classrooms

Podcasting rooms are equipped with a video camera, microphones and content capture for the recording of live video and audio of class lectures, to be made available on-line for later viewing. Rooms also include the Technology Enhanced equipment as well.

| |
|--|
| Trinidad Campus: 10 rooms available |
|--|

| |
|---|
| Valley Campus: 3 rooms available |
|---|

Video Conferencing

All Video Conferencing rooms are equipped with a computer/smartmonitor, DVD/VHS players, Digital Document cameras, ceiling mount projector or large display flat panel, and sound system.

Trinidad Campus

| Location |
|---|
| Berg 105 – Polycom VSX series |
| Boyd TCR – Polycom HD series |
| Boyd Conference – Polycom VSX series |
| Davis 145 – Polycom VSX series |
| Davis 123 – Polycom VSX series |
| Davis 215 – Polycom HD series |
| Library Seminar – Polycom VSX series |
| Sullivan Student Center – Polycom HD series |

Valley Campus

| Location |
|------------------------------|
| SLV 124 – Polycom VSX series |
| SLV 157 – Polycom VSX series |
| SLV 229 – Polycom HD series |
| SLV 236 – Polycom HD series |

Office/Staff computers – No classroom use

| | |
|-----------------|-----|
| Trinidad Campus | 201 |
| Valley Campus | 80 |

Technology initiatives identified in the Educational Master Plan

Classroom technology is instrumental in revitalizing instructional delivery. Additional technical support and training is available to aid faculty in implementing these technologies. TSJC has instituted a technology committee whose purpose is to review the needs of students, faculty, and staff. These areas have representation on the committee. The committee meets at the beginning of each fiscal year to set technology priorities of the College. Below are initiatives that will be considered which were identified in TSJC's Educational Master Plan (in no particular order).

- - Laptop, computer software and podcasting technology as needed by instructors.
 - Smart classroom technology.
 - Electronic readers, such as Kindles.
 - Simulation software for science, engineering, and other programs labs.
 - Security camera system.
 - Training panels for renewable energy line tech programs.
 - Cisco telepresence.
 - Electronic medical records program.
 - State-of-the-art diagnostic equipment for heavy equipment, diesel, and auto mechanics programs.

Attachment A

Trinidad State Junior College Technology Replacement Schedule

All Labs are on a 4 year hardware replacement cycle

| Trinidad Campus Labs | Last Update FY | Next Planned Update FY | Cost |
|---|-----------------------|-------------------------------|-------------|
| Banta 101 Automotive (4 Computers) | 2007/08 | 2011/12 | \$6,300.00 |
| Banta 307 Gunsmithing (12 Computers) | New 2010/11 | 2014/15 | \$20,400.00 |
| Banta 305 (4 Computers) | 2007/08 | 2011/12 | \$5,250.00 |
| Berg 305 (20 Computers) | 2008/09 | 2012/13 | \$21,000.00 |
| Berg 307 (21 Computers) | 2010/11 | 2014/15 | \$22,050.00 |
| Boyd 119 Macintosh (14 Computers) | 2010/11 | 2014/15 | \$29,400.00 |
| Davis 115 (29 Computers) | New 2010/11 | 2014/15 | \$30,450.00 |
| Davis 234 Macintosh (16 Computers) | 2009/10 | 2012/13 | \$30,400.00 |
| Davis Mobile Lab 133 - Laptop Cart (10 Computers) | New 2010/11 | 2014/15 | \$15,000.00 |
| Davis Mobile Lab 222 - Laptop Cart (20 Computers) | New 2010/11 | 2014/15 | \$30,000.00 |
| Library Lab 218 - Open Lab - Receives recycled PC's from updated labs (8 Computers) | 2010/11 | 2014/15 | No Cost |
| Library Math Lab Laptops (10 Computers) | New 2010/11 | 2014/15 | \$15,000.00 |
| Library SSC (12 Computers) | 2009/10 | 2013/14 | \$12,600.00 |
| Library Writing Center (11 Computers) | 2009/10 | 2011/12 | \$11,550.00 |
| Mining Tech Simulation Lab (9 Computers) | 2006/7 | 2010/11 | \$15,300.00 |
| Mullen 305 - Open Lab - Receives recycled PC's from updated labs (15 Computers) | 2007/08 | 2011/12 | No Cost |
| IT Mobile Cart (30 Computers) | 2010/11 | 2014/15 | \$45,000.00 |
| Huggins Residence Hall - Open Lab - Receives recycled PC's from updated labs (4 Computers) | 2009/10 | 2013/14 | No Cost |
| O'Conner Residence Hall - Open Lab - Receives recycled PC's from updated labs (5 Computers) | 2010/11 | 2014/15 | No Cost |

| Alamosa Campus Labs | Last Update FY | Next Planned Update FY | Cost |
|----------------------------------|-----------------------|-------------------------------|-------------|
| SLV 114 (5 Computers) | New 2010/11 | 2014/15 | \$8,500.00 |
| SLV 149 Macintosh (10 Computers) | 2008/09 | 2012/13 | \$21,000.00 |
| SLV 216 (21 Computers) | 2010/11 | 2014/15 | \$22,050.00 |
| SLV 241 (21 Computers) | 2009/10 | 2013/14 | \$22,050.00 |
| SLV 243 (20 Computers) | 2009/10 | 2013/14 | \$21,000.00 |
| SLV 247 (18 Computers) | 2010/11 | 2014/15 | \$18,900.00 |
| SLV 103SC (20 Computers) | 2008/09 | 2012/13 | \$21,000.00 |
| Mobile Lab (15 Computers) | 2009/10 | 2013/14 | \$30,000.00 |

Technology Enhanced classrooms

Trinidad Campus: 33 rooms available

Alamosa Campus: 20 rooms available

Technology Enhanced classrooms are equipped with computer\smartmonitor, DVD\VHS players, Digital Document cameras, ceiling mount projector or large flat panel, and sound system. All rooms have the availability to encompass the use of "i-Clickers: a classroom response system" for testing and assessment needs.

Podcasting or Live video Capture classrooms

Trinidad Campus: 10 rooms available

Alamosa Campus: 3 rooms available

Podcasting rooms are equipped with video camera, microphones and content capture for the recording of live video and audio of class lectures, to be made available on-line for later viewing. Rooms also include the Technology enhanced equipment as-well.

Video Conferencing

| Trinidad Campus | Last Update FY | Next Planned Update FY | Cost |
|---|-----------------------|-------------------------------|-------------|
| Berg 105 - Polycom VSX series | 2003/04 | 2011/12 | \$35,000.00 |
| Boyd TCR - Polycom HD series | 2010/11 | 2017/18 | \$35,000.00 |
| Boyd Conference - Polycom VSX series | 2003/04 | 2013/14 | \$35,000.00 |
| Davis 145 - Polycom VSX series | 2003/04 | 2013/14 | \$35,000.00 |
| Davis 123 - Polycom VSX series | 2003/04 | 2012/13 | \$35,000.00 |
| Davis 215 - Polycom HD series | 2009/10 | 2017/18 | \$35,000.00 |
| Library Seminar - Polycom VSX series | 2003/04 | 2011/12 | \$35,000.00 |
| Sullivan Student Center – Polycom HD series | 2010/11 | 2017/18 | \$35,000.00 |

| Alamosa Campus | Last Update FY | Next Planned Update FY | Cost |
|------------------------------|-----------------------|-------------------------------|-------------|
| SLV 124 - Polycom VSX series | 2003/04 | 2011/12 | \$35,000.00 |
| SLV 157 - Polycom VSX series | 2003/04 | 2012/13 | \$35,000.00 |
| SLV 229 - Polycom HD series | 2010/11 | 2017/18 | \$35,000.00 |
| SLV 236 - Polycom HD series | 2010/11 | 2017/18 | \$35,000.00 |

All video Conferencing rooms are equipped with computer\smartmonitor, DVD\VHS players, Digital Document cameras, ceiling mount projector or large display flat panel, and sound system.

| Office \ Staff computers - No Classroom use | Last Update FY | Next Planned Update FY | Cost |
|--|-----------------------|-------------------------------|--------------|
| Trinidad Faculty Offices (81 Computers) | 2010/11 | 2015/16 | \$85,050.00 |
| Trinidad Staff Offices (120 Computers) | 2007/08 | 2012/13 | \$126,000.00 |
| Alamosa Faculty Offices (40 Computers) | 2010/11 | 2015/16 | \$42,000.00 |
| Alamosa Staff Offices (40 Computers) | 2007/08 | 2012/13 | \$42,000.00 |

| General Guidelines for both campuses | Last Update FY | Next Planned Update FY | Cost |
|--|-----------------------|-------------------------------|--------------|
| Network core switches and routers are on a 5 to 7 years replacement cycle for both campuses | 2010/11 | 2016/17 | \$128,000.00 |
| Wireless network\communications for both campuses are on a 5 year replacement cycle | 2010/11 | 2015/16 | \$98,500.00 |
| Software updates \ purchases are prioritized by the Technology Committee, on a semester by semester basis. | On Going | On Going | |
| Software maintenance and licensing annually | On Going | On Going | \$75,000.00 |
| Classroom technology updates are prioritized by the Technology Committee, on a semester by semester basis. | On Going | On Going | \$50,000.00 |
| Learning Management System (LMS) - Derire-2-Learn (D2L) is the system that is the online campus. D2L offers online and hybrid courses. | On Going | On Going | |

Technology Updates, Purchases, and Annual Maintenance (Allocation by Year)

| | | * Classroom Technology Updates | Annual Software Maintenance & Licensing | Annual Totals |
|---------|---------------|---|--|----------------------|
| 2010/11 | \$ 134,650.00 | \$ 50,000.00 | \$ 75,000.00 | \$ 259,650.00 |
| 2011/12 | \$ 128,100.00 | \$ 50,000.00 | \$ 75,000.00 | \$ 253,100.00 |
| 2012/13 | \$ 331,400.00 | \$ 50,000.00 | \$ 75,000.00 | \$ 456,400.00 |
| 2013/14 | \$ 155,650.00 | \$ 50,000.00 | \$ 75,000.00 | \$ 280,650.00 |
| 2014/15 | \$ 256,700.00 | \$ 50,000.00 | \$ 75,000.00 | \$ 381,700.00 |
| 2015/16 | \$ 225,550.00 | \$ 50,000.00 | \$ 75,000.00 | \$ 350,550.00 |
| 2016/17 | \$ 128,000.00 | \$ 50,000.00 | \$ 75,000.00 | \$ 253,000.00 |
| 2017/18 | \$ 175,000.00 | \$ 50,000.00 | \$ 75,000.00 | \$ 300,000.00 |
| | | | | |

* Classroom technology updates are prioritized by the Technology Committee, on a semester by semester basis.