
Technology Plan

I. WHAT WE BELIEVE:

Students need to be able to use a wide variety of technological tools to enhance their future success as students and workers.

It is imperative for all students to have access to information via technology as a basis for lifelong learning.

It is essential for all learners, including educators, to process and manage information through the skillful use of technology.

Skillful use of technology supports the development of process skills such as flexibility, adaptability, critical thinking, problem solving and collaboration which are essential to success in our rapidly changing information age.

Networked technology systems permit efficient and effective communications within and outside the college.

Technology allows us to better serve the diverse learning styles of our students and educate them for a wider range of intelligence (e.g., verbal/linguistic, logical/mathematical, visual/spatial, bodily/kinesthetic, musical, interpersonal, and intrapersonal -- H. Gardner).

Technology maximizes productivity and efficiency and enables schools to better prepare students for future learning.

Our institution must prepare students for today's workplace and the workplace of the future.

II. ESSENTIAL INGREDIENTS

(MISSION STATEMENT & LEARNING GOALS)

The mission of Trenholm State Technical College, in partnership with the community, is to provide students with the knowledge, skills, and qualities required to be successful in a diverse society.

To achieve its mission, the college is working towards the achievement of the following goals:

- To ensure access to quality career preparation and life-long learning for all persons, without regard for age, gender, ethnicity, religion, or disability.
- To provide opportunities for individuals to receive certificates, associate degrees, and industry recognized credentials in current and emerging occupational and technical fields.
- To enhance economic development in the region through programs and services for area employers and the community.
- To meet the needs of a variety of community-based populations through credit, non-credit, and basic education courses, offering flexible schedules and convenient instructional sites; and making available services, activities, and other resources.
- To improve the effectiveness and efficiency of career preparation for students by providing appropriate assessments and career counseling services, and by implementing articulation agreements with local school systems and universities.
- To develop faculty and staff who are competent, professional, and enthusiastic in advancing the mission of the College.
- To institutionalize the strategic planning process to allocate, develop, and maintain college resources, and undertake strategic reviews of all programs and services to ensure the long-term viability of the College.
- To integrate the most up-to-date technological, andragogical, curricular and environmental resources into its teaching, service, support, and administrative functions.
- To establish an environment which is safe, healthy, aesthetically pleasing, accessible to students, and otherwise conducive to learning?

III. KEY COMPONENTS

DEVELOPMENT OF LIFELONG LEARNERS

Assures skillful use of technology to support the development of lifelong learning skills and process skills such as: flexibility, adaptability, critical thinking, problem solving, and collaboration which are essential to success in our rapidly changing information age.

LIFELONG LEARNERS ARE:

- Responsible for their own learning
- Skilled in accessing & processing information
- Confident in using technological tools
- Able to solve complex problems alone or collaboratively
- Capable of being creative and innovative
- Able to communicate locally, nationally, and world-wide

PLANNING PROCESS FOR STAFF TRAINING

- Provide introduction to networked systems.
- Ensure Faculty and Staff is aware of available technology through professional development.
- Supports using basic network software.
- Incorporates training for new curriculum with technology applications.

EQUAL ACCESS FOR THE LEARNING COMMUNITY

- Establishes basic technological networking capabilities provided at all sites.
- Provides for minimum standards of hardware and software for all students, staff, and sites.
- Assures that all students, staff and sites will be provided with and have equal access to minimum standards of hardware and software.
- Expands and enhances voice communications to provide student/faculty/community greater access to school information.
- Enables students/faculty/community via telecommunications, access to school learning resources, classroom lessons/assignments, and school information 24 hours a day.
- Provides the learning community with greater opportunity for interaction, collaboration and information exchange. The school will become a vital meeting place for a host of community services.
- Promotes equitable access to learning technology as a community investment and encourages an active partnership between schools, businesses, homes and the community.

INTEGRATION OF TECHNOLOGY IN THE CLASSROOM

- Expands classroom tools for teaching and learning.
- Provides for the integration of multiple resources for existing and emerging curriculum.
- Enables learning community to communicate more effectively, access and process information, and work productively.
- Links the classroom with educational resources within the building, community and worldwide.
- Creates a collaborative environment for project oriented activities.
- Increases the productivity of students as they work toward attaining learning outcomes.
- Encourages the use of multimedia tools enabling students to become active and experiential learners.
- Enables learning to involve partnerships within the school, among schools, and with other organizations.

SUPPORT FOR INSTRUCTIONAL CHANGE

- Facilitates access to collegial support and best practice information from a wide variety of resources.
- Expands the variety of teaching tools and strategies to support diverse learning styles.
- Supports productive and efficient management of student information, assessment and portfolio data.
- Increases support for emerging instructional strategies: inter-disciplinary, collaborative, and active learning options.
- Enables curriculum, instruction and assessment to be developed and aligned with each other.
- Provides a system that helps students, parents and teachers work together to support educational outcomes.

PROPOSED LEARNING OPPORTUNITIES AND TECHNOLOGY ENHANCEMENTS

Goal
1

Add Streaming Video to Distance Education Program

Goal II of this plan involves the purchase, configuration and implementation of a streaming media server to enhance the distance learning program via the web. This plan addresses hardware and software requirements, software licensing, costs, and project timelines. Streaming video server to be housed in Library Tower accessible internally and externally.

Hardware	Software	Instructors	Curriculum	Start-up	Costs
Zeon Class Server to Host Streaming media	Real Helix Server Media Licensing Requirements	Deans Instruction, EMT and General Ed Instructors Moodle Training in course development	All Courses Currently being taught can take advantage of this new technology	Summer 2010	\$0

Goal 2

Network Based Video Surveillance System

Goal 2 of this plan involves the purchase, configuration and implementation of a network based video surveillance system. This system will be integrated into the existing college IP network with the sole purpose of recording activities within strategic locations of the college to enhance college safety and security. Locations identified will have a network based camera/s, mounting hardware. Recording of camera information to be performed centrally to a digital video recording system to be housed at one of the college's primary locations. It is expected this system will be ready for implementation by summer 2011.

Hardware	Software	Used By	Location	Start-up	Costs
IP Network Based Cameras Digital Video Recording System (DVR)	DVR Software	Security Coordinator and Administrator	Building E Patterson Library Trenholm	Mar 2011	\$8000

PC Hardware/Software Lifecycle

Trenholm and Patterson Campuses

All PC hardware and software will have a campus lifecycle on average of four to six years from date of purchase depending on program and availability of funds. The current goal for minimum processor speed, memory, hard drive capacity, network speed are: Core 2 Duo, 3.0 GHZ, 4 GB Memory, 160 GB hard drive, and 10/100 network interface card. The minimum software configuration for all college PCs will be Microsoft XP Professional, Microsoft Office 2007, Adobe Acrobat Reader, and Microsoft Outlook. The table below lists by campus lab, administrative function, a planned replacement schedule for hardware and software. When PCs are removed/replaced from one lab they are evaluated for use in other areas.

REV 11-9-10

<u>Patterson Campus</u>					
<u>Function/Lab</u>	<u>Room</u>	<u>Hardware Software</u>	<u>Quantity</u>	<u>Year Installed</u>	<u>Replacement Schedule</u>
<u>Drafting</u>	<u>B111</u>	<u>P4 2.8 GHz</u>	<u>16</u>	<u>2005</u>	<u>2010</u>
<u>MIS Instructional Lab</u>	<u>E101A</u>	<u>C2 Duo 2.66 GHz</u>	<u>20</u>	<u>2008</u>	<u>2012</u>
<u>MIS Microsoft Lab</u>	<u>E101B</u>	<u>C2 Duo 2.66 GHz</u>	<u>20</u>	<u>2008</u>	<u>2012</u>
<u>MIS Cisco Lab</u>	<u>E101C</u>	<u>P4 2.66 GHz</u>	<u>20</u>	<u>2003</u>	
<u>MIS Instructional Lab</u>	<u>E101D</u>	<u>C2 Duo 2.66 GHz</u>	<u>20</u>	<u>2008</u>	<u>2014</u>
<u>Interior Design</u>	<u>E102</u>	<u>P4 2.8 GHz</u>	<u>1</u>	<u>2004</u>	
<u>Student Support Services</u>	<u>Trailer</u>	<u>P4 3 GHz</u>	<u>5</u>	<u>2005</u>	<u>2011</u>
<u>Air Conditioning</u>	<u>E103</u>	<u>P4 3 GHz</u>	<u>20</u>	<u>2005</u>	<u>2011</u>
<u>Industrial Maintenance</u>	<u>E104</u>	<u>C2 Duo 2.13 GHz</u>	<u>7</u>	<u>2008</u>	<u>2013</u>
<u>Machine Tool Technology</u>	<u>F102A</u>	<u>C2 Duo 2.66 GHz</u>	<u>10</u>	<u>2009</u>	<u>2015</u>
<u>Auto Mechanics</u>	<u>G101C</u>	<u>P4 2.6 GHz</u>	<u>20</u>	<u>2008</u>	
<u>Carpentry</u>	<u>H101A</u>	<u>P4 2 GHz</u>	<u>2</u>	<u>2009</u>	
<u>Welding</u>	<u>H102A</u>	<u>P4 3 GHz</u>	<u>4</u>	<u>2006</u>	<u>2011</u>
<u>LEC</u>	<u>J106A</u>	<u>C2 Duo 2.66 GHz</u>	<u>20</u>	<u>2008</u>	<u>2012</u>
<u>LEC</u>	<u>J107A</u>	<u>C2 Duo 2.66 GHz</u>	<u>20</u>	<u>2008</u>	<u>2012</u>
<u>Graphic Arts</u>	<u>K101</u>	<u>IMAC 2.66 GHz</u>	<u>20</u>	<u>2008</u>	<u>2014</u>
<u>Radio/TV</u>	<u>K101</u>	<u>P4 3 GHz</u>	<u>8</u>	<u>2006</u>	<u>2011</u>
<u>Diesel Mechanics</u>	<u>L101A</u>	<u>C2 Duo 2.66 GHz</u>	<u>5</u>	<u>2008</u>	<u>2012</u>
<u>Industrial Electronics</u>	<u>M102</u>	<u>P4 1.7 GHz</u>	<u>10</u>	<u>2010</u>	
<u>Industrial Electronics</u>	<u>M102</u>	<u>P4 3 GHz</u>	<u>12</u>	<u>2006</u>	<u>2011</u>
<u>Auto Manf MES Ctrl</u>	<u>Q103</u>	<u>C2 Duo 2.66 GHz</u>	<u>6</u>	<u>2008</u>	<u>2013</u>
<u>Auto Manufacturing</u>	<u>Q104</u>	<u>C2 Duo 2.66 GHz</u>	<u>12</u>	<u>2008</u>	<u>2013</u>
<u>Auto Manf Robotics</u>	<u>Q106</u>	<u>C2 Duo 2.66 GHz</u>	<u>6</u>	<u>2008</u>	<u>2013</u>

**Trenholm
Campus**

Function/Lab	Room	Hardware Software	Quantity	Year Installed	Replacement Schedule
<u>MIS Instructional Lab</u>	<u>L212</u>	<u>Core i3 530</u>	<u>21</u>	<u>2010</u>	<u>2014</u>
<u>MIS Instructional Lab</u>	<u>L210</u>	<u>C2 Duo 2.4 GHz</u>	<u>16</u>	<u>2008</u>	<u>2014</u>
<u>MIS Instructional Lab</u>	<u>L211</u>	<u>C2 Duo 2.4 GHz</u>	<u>16</u>	<u>2008</u>	<u>2012</u>
<u>MIS Instructional Lab</u>	<u>L308</u>	<u>C2 Duo 2.4 GHz</u>	<u>16</u>	<u>2008</u>	<u>2012</u>
<u>MIS Instructional Lab</u>	<u>L309</u>	<u>C2 Duo 2.4 GHz</u>	<u>16</u>	<u>2008</u>	<u>2013</u>
<u>MIS Instructional Lab</u>	<u>B111</u>	<u>P4 3 GHz</u>	<u>3</u>	<u>2005</u>	<u>2010</u>
<u>Culinary Lab</u>	<u>Bank Bldg</u>	<u>C2 Duo 2.4 GHz</u>	<u>25</u>	<u>2010</u>	<u>2015</u>
<u>Dental Lab</u>	<u>J117</u>	<u>P4 3 GHz</u>	<u>21</u>	<u>2005</u>	<u>2010</u>
<u>Medical Assist Lab</u>	<u>B113</u>	<u>P4 3 GHz</u>	<u>26</u>	<u>2005</u>	<u>2011</u>
<u>Medical Assist Lab</u>	<u>B115</u>	<u>P4 3 GHz</u>	<u>5</u>	<u>2005</u>	<u>2011</u>
<u>Medical Assist Lab</u>	<u>C108</u>	<u>P4 3 GHz</u>	<u>20</u>	<u>2006</u>	<u>2012</u>
<u>Medical Assist Lab</u>	<u>Trailer</u>	<u>P4 3 GHz</u>	<u>10</u>	<u>2006</u>	<u>2012</u>
<u>SSS Lab</u>	<u>C101</u>	<u>P4 1.66 GHz</u>	<u>6</u>	<u>2002</u>	<u>2011</u>
<u>EMT Lab</u>	<u>E101</u>	<u>P4 3 GHz</u>	<u>10</u>	<u>2007</u>	<u>2013</u>
<u>LEC</u>	<u>F101A</u>	<u>C2 Duo 2.66 GHz</u>	<u>15</u>	<u>2007</u>	<u>2013</u>
<u>Auto Body Lab</u>	<u>H101</u>	<u>C2 Duo 2.66 GHz</u>	<u>8</u>	<u>2009</u>	<u>2014</u>

Multi-Media Smart Classrooms

Trenholm/Patterson Campus

Goal four requires the installation of one smart classroom to enhance course delivery. The classrooms will consist of a ceiling mounted LCD projector, projector screen, Smart Technologies Sympodium, and a PC connected to the Internet. Installation locations include at least two classrooms on the Patterson Campus and three to five in the Joseph Dickerson building currently under renovation. Existing Smartboard technology will be relocated to mechanical shop classrooms. We will continue to install this technology until all classrooms have this level of enhanced technology. Currently we have approximately 38 classrooms equipped.

Hardware	Software	Curriculum	Start-up	Cost (Estimate)
Smart Technologies Sympodium	Control software	N/A	2010	\$16000
Internet Enabled Desktop				
Document Camera				
Minimum 3200 lumen ceiling mounted LCD projector				
Mounted projector screen.				
Associated mounting hardware				

Complete Migration to Grade Quick Web for All Instructors

Patterson/Trenholm Campuses

The college has purchased 60 licenses to migrate 100 percent of the instructor base to Grade Quick Web. We have moved 35 instructors to the web based product that allows access to student grades 24/7 via the Internet. The system is reliable and secure and just one component of the Edline system. We anticipate migration of 100 percent of the instructors by Fall of 2011. We may need to purchase additional licenses to cover adjunct instructors.

Users	Campus Location	Implementation	Cost
College Instructors	Patterson/Trenholm	Summer 2011	\$1350/year