

# Murray State University College of Education Technology Plan

## Vision for Technology

Faculty, pre-service students, graduate students, administrators, and staff use state-of-the art technology tools which encourage progressive administration, research-based teaching incorporating technology, active learning, continuous assessment and effective classroom management in order to facilitate the successful implementation of the College of Education's mission, goals and objectives.

## Mission for Technology

The technology mission of Murray State University College of Education is to incorporate technology into every aspect of the educational process, which will ensure life-long learning by

- Providing the technology tools necessary to implement the technology mission, goals, and objectives of the College of Education
- Providing electronic access to local and global information sources for faculty, students and staff
- Providing the comprehensive training and support to enable faculty and students to meet the mandates of the Kentucky New Teacher Standard IX as well as NCATE and other national and international standards
- Supporting the complete integration of technology into the teaching/learning environment
- Fostering creativity and competence that will promote self esteem and diversity
- Encouraging and expanding communications through a strong learning community
- Ensuring accessibility and commitment to deal with current and future needs

## NCATE, National and State Standards

The technology goals defined in this technology plan must ensure that the mission of the College is addressed. It has been the determination of the College to ensure that the mission, goals and objectives reflect state and national standards as well as NCATE recommendations for successful implementation of technology into education programs. NCATE defines technology use as being "What candidates must know and understand about information technology in order to use it in working effectively with students and professional colleagues in the delivery, development, prescription, and assessment of instruction; problem solving; school and classroom administration; educational research; electronic information access and exchange; and personal and professional productivity." In order to implement state and national standards and meet the NCATE definition of technology use:

- Provisions must be made for acquisition of hardware and software.
- Faculty must have the knowledge and skills to incorporate and model appropriate technology into teaching.
- Technical support and professional development must be available.
- Faculty and staff must assess and implement technologies that address continuous improvement processes.
- The College of Education must reward individuals for success, promote productive partnerships and encourage the development of learning communities.

## Goals

These state and national standards as well as NCATE recommendations have also been considered carefully in the design of this technology plan through goals, objectives, activities, and incentives.

Five goals have been identified to facilitate, promote, and meet the mission and vision of the College of Education.

**Goal 1: Create an educational culture composed of a community of learners where each individual believes s/he can learn anything, anytime and anywhere.**

**Goal 2: Create active learners who hold excellence as a standard and continuously think critically and strive for excellence in lifelong learning.**

**Goal 3: Seek to enhance faculty members' abilities to model instructional technology.**

**Goal 4: Develop a climate in which faculty and staff effectiveness and creativity are encouraged, valued and supported to promote productivity and ownership for student quality and success. Provide efficient and effective support and staff development for the total program.**

**Goal 5: Develop and strengthen productive partnerships for the College of Education that promote and support the technology initiatives that build stronger teachers.**

**Goal 1: Create an educational culture composed of a community of learners where each individual believes s/he can learn anything, anytime and anywhere.**

Strategies for Attainment:

- 1.1 Make technology available where learning occurs by placing technology in College of Education classrooms and labs.
- 1.2 Provide access to computers for faculty to use in the classrooms and at home to facilitate implementation.
- 1.3 Provide technological support for instruction.
- 1.4 Facilitate greater interaction and collaboration among faculty, pre-service, and in-service teachers.
- 1.5 Promote joint curriculum development, mentoring and collaboration and continuous improvement.
- 1.6 Promote and encourage teachers' professional growth and interaction with colleagues.

**Goal 2: Create active learners who hold excellence as a standard and continuously think critically and strive for excellence in lifelong learning.**

Strategies for Attainment:

- 2.1 Engage learners with technology as a means of support for learner excellence.
- 2.2 Implement technology across programs in a planned systemic manner.
- 2.3 Use technology to create learning environments in which students can:
  - Become lifelong learners
  - Experience new technologies in a global environment
  - Promote a positive environment that encourages innovation and problem solving
  - Become actively involved in learning
  - Be prepared for change
- 2.4 Insure that students meet the New/Experienced Teacher Technology Standard by:
  - Modeling the use of technology in courses
  - Requiring that students use technology to complete assignments
  - Utilizing alternative assessments that incorporate technology
  - Submission of an electronic eligibility portfolio

**Goal 3: Seek to enhance faculty members' abilities to model instructional technology.**

Strategies for Attainment:

- 3.1 Analyze strengths and weaknesses of faculty based on the new Kentucky Teacher Technology Standard IX.
- 3.2 Implement on-going staff development experiences to enable faculty to acquire and utilize the technology competencies mandated by Kentucky and national standards:
  - Provide online training resources
  - Provide immersion experiences
  - Provide a variety of training experiences
  - Provide mentors and facilitators to work with faculty
  - Provide professional development experiences needed to develop instructional technology competencies
- 3.3 Revise and post course syllabi, which include the inclusion of identified technology competencies.

**Goal 4: Develop a climate in which faculty and staff effectiveness and creativity are encouraged, valued and supported to promote productivity and ownership for student quality and success. Provide efficient and effective support and staff development for the total program.**

Strategies for Attainment:

- 4.1 Utilize technology to improve communication
- 4.2 Convert faculty and staff paper work to electronic processes that improve the efficiency of advising, reporting, monitoring, ordering, etc.
- 4.3 Implement appropriate data collection and retrieval strategies
- 4.4 Provide recognition, incentives, and rewards for faculty members who strive to learn and implement new technologies.

**Goal 5: Develop and strengthen productive partnerships for the College of Education that promote and support the technology initiatives that build stronger teachers.**

## COE TECHNOLOGY IMPLEMENTATION PLAN

**Goal 1: The College of Education will create an educational culture composed of a community of learners where each individual believes s/he can learn anything, anytime and anywhere.**

**Strategy 1: Make technology available where learning occurs by placing technology in College of Education classrooms and labs.**

### Activities and Timeline

**Provide a technology lab for College of Education students.**

Ongoing	Assess/Install instructional and tool software on a regular basis
Ongoing	Assess/Upgrade computer operating system/s on a regular basis
Annually	Review and revise lab policies and procedures
2002, Summer	Install a security system
2003	Investigate system that would collect data on lab use electronically
2006	Update lab

**Provide a technology lab for College of Education students. (COMPLETED)**

1998	Expand size of COE student lab
1999, Fall	Upgrade or replace computers to reach Pentium
1999, Fall	Purchase and install content area software in COE student lab
2000, Spring	Add 5 additional computers in COE student lab
2000, Spring	Increase memory in all lab computers to 64mb
2000, Fall	Upgrade to Office 2000 software
2000, Fall	Extend student lab hours
2000, Fall	Implement system to track lab usage
2001, Spring	Replace 21 COE student lab computers with new computers and add additional computers to equal 45
2001, Spring	Provide electronic board (Smart Board) for large screen projection in the student lab
2001, Spring	Purchase and install content area software in COE student lab
2001, Fall	Implement a pilot program to provide students with technical assistance in the labs
2002, Spring	Expand student lab to allow for full utilization (50 new computers)

**Provide technology in College of Education classrooms.**

Ongoing	Assess/Add instructional and tool software on a regular basis
Ongoing	Assess/Upgrade computer operating system/s on a regular basis
2002, Summer	Purchase additional projection devices for faculty checkout for presentations/off-campus classroom use.
2002, Fall	Purchase wireless keyboards and document cameras for all classrooms
2005	Upgrade computers in classrooms

**Provide technology in College of Education classrooms. (COMPLETED)**

1998, Fall	Provide data drops in classrooms in Wells Hall
1999, Spring	Purchase 6 projection devices and 6 laptops and 6 digital cameras (one for each department and Dean's office for checkout)
1999, Fall	Purchase equipment for an interactive television and video room to be utilized for College of Education courses
2000, Fall	Provide wireless data access to classrooms in Special Education Building
2001, Spring	Purchase projection devices or tv/scan converters, televisions and VCRs for all COE classrooms
2001, Spring	Provide 10 high-end laptops for checkout by faculty for classroom use by students
2001, Summer	Place computers replaced in the student lab in classrooms (Reading and Industry and Technology)
2001, Fall	Wire all classrooms in Alexander Hall for network access with data drops and wireless receivers. Include electricity for ceiling-mounted projection.
2002, Spring	Place computers replaced in student lab in all classrooms in Alexander Hall (2 computers in each room)
2002, Spring	Purchase and install electronic whiteboards (SmartBoards), projection devices, televisions, vcrs, and dvd-players in all classrooms
2002, Spring	Add additional laptops for faculty checkout for student use in classrooms (wireless laptops and carts)
2002, Spring	Provide two open faculty labs to be used for whole class instruction

**Strategy 2: Provide access to computers/technology for faculty to use in classrooms and at home to facilitate implementation.**

**Activities and Timeline**

**Place a modern, networked computer in every faculty member's office.**

Ongoing	Upgrade hardware and software on a regular basis (rotation target of three years)
2002, Spring and Summer	Upgrade or replace computers to reach Pentium II or Macintosh equivalent
2002, Spring and Summer	Add computers in on-campus offices for adjuncts, graduate assistants and off-campus faculty

**Place a modern, networked computer in every faculty member's office. (COMPLETED)**

1999, Spring	Standardize software installs (Office version, browser/s, file compression (Winzip), Acrobat Reader, video and audio players)
1999, Fall	Upgrade or replace computers to reach Pentium
2000, Fall	Upgrade to Office 2000
2001, Spring	Upgrade or replace computers to reach Pentium

**Provide laptops for faculty use in instruction, planning, and preparation.**

Ongoing	Assess/purchase/distribute hardware as needed for laptops/wireless devices for faculty use
2002, Summer	Distribute 4 laptops to faculty committed to use in instructional applications
2002, Fall	Distribute laptops to faculty committed to use for instructional applications

**Provide laptops for faculty use in instruction, planning, and preparation. (COMPLETED)**

2001, Spring	Purchase 35 high-end laptops for faculty use for instruction and planning. Distribute to 20 faculty committed to use in instructional applications
2001, Fall	Distribute 5 laptops to faculty committed to use in instructional applications
2002, Spring	Distribute 4 laptops to 2+2 faculty committed to use in instructional applications

**Provide PDAs as a tool for faculty for management and instruction.**

Ongoing	Assess/Implement wireless devices for instructional use
2001, Summer	Provide PDAs for administrative team to model use of technology
2002, Summer	Assess/Implement wireless access for PDAs
2002, Fall	Provide PDAs for 15 faculty members committed to researching instructional implications of handheld computer technology
2002, Fall	Provide projection capability for PDAs

**Provide PDAs as a tool for faculty for management and instruction. (COMPLETED)**

2001, Fall	Provide PDAs for 15 faculty members committed to researching instructional implications of handheld computer technology
2001, Fall	Research/Assess/Implement instructional applications/software for handheld computers

**Provide digital cameras and digital video cameras for use in instruction.**

Ongoing	Assess/purchase/distribute multimedia hardware, cameras, etc. needed for faculty use
Spring 2002	Purchase digital cameras and digital video cameras for faculty checkout for classroom use

**Provide digital cameras and digital video cameras for use in instruction. (COMPLETED)**

Spring 2000	Purchase digital cameras for faculty checkout for classroom use (one for each department)
Spring 2001	Purchase 10 digital cameras for faculty checkout for classroom use

**Investigate/implement strategies that facilitate access from homes/other off-campus sites.**

Ongoing	Promote utilization of Blackboard Course Development Tools for online delivery of courses and other web delivery tools
Ongoing	Promote utilization of Kentucky Virtual University
2002	Investigate alternative methods for high-speed internet access including Internet2.

**Investigate/implement strategies that facilitate access from homes/other off-campus sites. (COMPLETED)**

2001, Spring	Promote development of web pages to provide web-enhancement to COE courses using COEKATE server
Ongoing	

**Strategy 3: Provide technological support for instruction**

### Activities and Timeline

**Provide a technical support team.**

Ongoing Beg. 2001, Fall	Service each computer in the College of Education biannually
Ongoing	Utilize resources of CTLT to facilitate technology infusion by COE faculty
Ongoing	Evaluate and revise maintenance and upgrade plan
Annually	Implement a 3-5 year target for replacement/rotation for computers
Annually	Implement a 2 year rotation plan to format and reinstall each computer

**Provide a technical support team. (COMPLETED)**

1992	Assign primary responsibilities of technology oversight for the College of Education to one person
1998, Fall	Employ a part-time person to assist with technical support of hardware, software and COE network
1999, Fall	Move KATE into College of Education and incorporate their assistance into support team
2000, Spring	Move COE web support to KATE
2000, Fall	Employ a full-time person to oversee technical support of COE hardware, software and network

**Initiate and implement “Just-In-Time” assistance/procedures.**

Ongoing Beg. Fall 2001	Purchase additional drives as needed to store data
Ongoing; Spring 2002	Implement electronic inventory management of COE-installed software to ensure compliance with license agreements
2002, Summer	Purchase a server for the College of Education to allow for student file storage, web pages, and data collection for the College of Education
2002, Fall	Implement centralized backup procedure
2003, Fall	Upgrade Exchange server

**Initiate and implement “Just-In-Time” assistance/procedures. (COMPLETED)**

1998, Fall	Move faculty e-mail accounts to Exchange 5.0
1998, Fall	Upgrade email server to Exchange 5.0
2000, Fall	Purchase a server for the College of Education providing access to information for faculty members
2000, Fall	Implement centralized repair reporting system
2001, Fall	Migrate exchange to larger server
2001, Fall	Implement centralized ordering and approval for technology in the College
2001, Spring	Institute management, virus protection and backup procedures for servers

**Strategy 4: Facilitate greater interaction and collaboration among faculty, pre-service, and in-service teachers**

#### Activities and Timeline

**Create the electronic network required to support the collaborative community.**

Ongoing Beg. 1995	Create email groups for faculty, pre-service and in-service teachers
Ongoing Beg. 2000	Create discussion threads on the web for faculty, pre-service and in-service teachers

**Strategy 5: Promote joint curriculum development, mentoring and collaboration**

#### Activities and Timeline

**Provide mentor/facilitators to work with university faculty**

Ongoing Beg. Fall 1999	Assign KATE staff to work with faculty to build technology skills and to develop strategies to integrate technology into instruction
Ongoing Fall 2000/Spring 2003	Provide stipends for faculty members to serve as peer mentors

**Provide program coordinators to facilitate joint curriculum development including inclusion of technology**

Ongoing Fall 2000/Spring 2003	Include mentoring and collaborative activities in faculty institutes
Ongoing	Collaborate with public schools to move instruction of selected teacher preparation courses to public school classrooms

**Strategy 6: Promote and encourage teachers' professional growth and collaboration with colleagues**  
**Activities and Timeline**

**Encourage faculty presentations and publication.**

Ongoing Beg. 2000	Encourage faculty presentations to COE colleagues
Ongoing Beg. 2001	Encourage faculty presentations during Scholars Week to campus-wide audiences
Ongoing Beg. 2001	Encourage faculty to submit materials for publication in journals and on the web
Ongoing Beg. 2001	Encourage faculty presentations at state, national, and world-wide conferences (KTLC)

**Review/Implement new instructional technologies**

Ongoing	Research/Implement appropriate instructional technologies
2002	Research/Implement appropriate instructional technologies: Review streaming video, Internet2, and other high speed access solutions for off-campus access
2002	Research/Implement active directory to allow easier assignment of network accounts and rights
2003	Research/Implement classroom presentation solutions such as liquid plazma, etc.

**Goal 2: The College of Education will create active learners who hold excellence as a standard and continuously think critically and strive for excellence in lifelong learning.**

**Activities and Timeline**

**Engage learners with technology as a means of support for learner excellence.**

Ongoing Beg. 1999	Provide e-mail accounts to College of Education students
Ongoing Beg. 2000	Utilize BlackBoard and other course development software to create and present education courses
Ongoing; Beg. Summer 2002	Provide resources to address learning needs for students preparing to meet General Academic Proficiency requirements for admission to Teacher Education
2002, Fall	Implement a student data server to provide resources for student file storage, web pages and data collection for the College of Education
2003	Provide email accounts for all College of Education students

**Engage learners with technology as a means of support for learner excellence. (COMPLETED)**

2000	Incorporate web-based technologies into interactive-television courses
2001	Provide email accounts for all student teachers

**Implement technology across programs in a planned systemic manner.**

Ongoing Beg. 2001	Create email accounts and distribution groups to enable information to flow and collaboration to occur
Ongoing Beg. Fall 2000-Sp2003	Provide seminars for student teachers to encourage continued growth of technology knowledge modeling the need for active, lifelong learning
Ongoing Beg. Fall 2000-Sp2003	Provide immersion experiences for faculty to revise course syllabi to incorporate technology into instruction
Ongoing, Beg. 2001	Assign Program Coordinators to collaborate with faculty to analyze and facilitate coordination of skills and knowledge across entire programs

**Insure that students meet the New/Experienced Teacher Technology.**

Ongoing Beg. 1999	Faculty model the use of technology in courses
Ongoing Beg. 2001	Require that students use technology to complete assignments
Ongoing Beg. 2001	Utilize alternative assessments that incorporate technology
Ongoing Beg. 2001	Require students to submit an electronic eligibility portfolio
2002, Fall	Provide classroom set of PDAs to research and implement wireless devices in an instructional setting
2002, Fall	Work with KDE to implement COE Student Technology Leadership Program

**Insure that students meet the New/Experienced Teacher Technology. (COMPLETED)**

2001, Spring	Implement policy requiring all students to submit electronic portfolios
1999, Spring	Pilot group of students submit electronic portfolio

**Goal 3: The College of Education seeks to enhance faculty members' abilities to model instructional technology.**

**Strategy 1: Analyze strengths and weaknesses of faculty based on the new Kentucky Teacher Technology Standard IX.**

**Activities and Timeline**

Ongoing Beg. 1999	Provide professional development based upon needs identified in the self assessment
Annually: Beg. 1999	Administer faculty self-assessment using the Kentucky New Teacher Standard Self-Assessment document
Annually: Beg. Fall 2001	Administer self-assessment online

**Strategy 2: Implement on-going staff development experiences to enable faculty to acquire and utilize the technology competencies mandated by Kentucky and national standards.**

**Activities and Timeline**

Ongoing	Provide instructional software. Review and add additional software each year.
Ongoing	Provide instructional software in faculty training lab
Ongoing	Provide instructional resources in faculty training lab (Whiteboard, projection device, video editing tools)
Ongoing Beg. 2000	Provide a variety of training experiences (small group, large group, online, immersion—from a few minutes to an hour or more to half day and whole day and several days)
Ongoing Beg. 2000	Provide KATE staff mentors and facilitators to work with faculty
Ongoing Beg. 2001	Provide web-based training resources (Web site)
Ongoing Beg. 1999	Provide immersion training experiences (Faculty Institutes and Faculty Retreats—each semester)
2001, Spring, Fall; 2002, Spring	Provide faculty mentors to work with faculty on development of skills needed to meet the Teacher Technology Standard and infusion of technology

**Strategy 2: Implement on-going staff development experiences to enable faculty to acquire and utilize the technology competencies mandated by Kentucky and national standards. (COMPLETED)**

1998	Provide Exchange folders of resources
1999, Fall	Provide online training resources (InfoSource Training Materials)
2000, Spring	Provide a faculty training lab

**Strategy 3: Review course syllabi showing the inclusion of identified technology competencies.**

Ongoing Beg 2001	Identify and teach university courses collaboratively in PK-12 classrooms
Ongoing Beg 2001	Program coordinators collaborate with faculty to identify technology competencies and ensure that the competencies are infused throughout each program
Ongoing Beg 2001	All student teachers will submit an electronic eligibility portfolio

**Goal 4: Develop a climate in which faculty and staff effectiveness and creativity are encouraged, valued and supported to promote productivity and ownership for student quality and success. Provide efficient and effective support and staff development for the total program.**

**Strategy 1: Utilize technology to improve communication.**

**Activities and Timeline**

Ongoing	Leadership of College utilize Outlook distribution lists to identify groups and communicate information/collaborate
Ongoing Beg. 2000	Post minutes of all College of Education committees, departments, etc. to web
Ongoing Beg. 2001	Provide all CAC agendas and minutes to entire College of Education faculty and staff by email
2002	Investigate/implement desktop conferencing strategies
2002, Spring	Create Outlook distribution lists of student teacher cohorts. Teacher education staff and KATE staff communicate all information during student teaching utilizing electronic messaging capabilities
2002, Spring	Investigate/implement Exchange Server add-ons
2003, Fall	Upgrade Exchange server

**Strategy 2: Convert faculty and staff paper work to electronic processes.**

**Activities and Timeline**

Ongoing Beg. 2002	Review and convert forms used for data collection to electronic documents
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**Strategy 2: Convert faculty and staff paper work to electronic processes. (COMPLETED)**

2000, Spring	Purchase College of Education server and assign directories to faculty and staff
2001, Fall	Utilize Outlook features to schedule resources
2001, Spring	Utilize web for data collection, surveys, etc.
2001, Fall	Create electronic toolbox for two plus two program faculty
2001, Fall	Post student teaching documents to the College of Education web

**Strategy 3: Implement appropriate data collection and retrieval strategies.**

**Activities and Timeline**

Ongoing Beg. 2001	Purchase additional snap drives to allow ample space for data collection
Ongoing Beg. 2002	Collaborate with other regional universities, EPSB, and other MSU agencies, including Information Systems and Registrar to define data collection needs for long-term data
2002, Summer	Purchase COE server to allow continuous collection, revision and storage of College of Education work, creation of student web pages and storage of Teacher Education data
2002	Implement active directory to assign user privileges and rights to College of Education students and allow more universal access to resources on and off campus
2003	Review and refine data collection system

**Strategy 3: Implement appropriate data collection and retrieval strategies. (COMPLETED)**

2001, Fall	Implement a solution that allows continuous collection, revision and storage of College of Education student work (BlackBoard)
2001, Fall	Evaluate data collection needs of Teacher Education and make recommendations

**Strategy 4: Provide recognition, incentives, and rewards for faculty members who strive to learn and implement new technologies.**

**Activities and Timeline**

Ongoing 2000, Spring-2003, Spring	Provide stipends to faculty members who participate in training institutes and commit to infuse technology into one or more courses in a significant manner
Ongoing Beg. 2000	Provide Mini-grant program to provide funding for innovative practices developed by faculty including technology
Ongoing Beg. 2001	Provide laptops for faculty members committed to incorporating technology into instruction
Fall 2001, Spring 2002, Fall 2002	Provide PDAs to faculty members who agree to research appropriate instructional practices utilizing handheld computer technology

**Strategy 4: Provide recognition, incentives, and rewards for faculty members who strive to learn and implement new technologies. (COMPLETED)**

2000, Spring	Provide new computers, stipends (\$200), and software or other technology (approximately \$200) to faculty members completing ED626 (a course designed to move faculty toward proficiency in the sixteen indicators of the New Teacher Technology Standard)
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**Goal 5: Develop and strengthen productive partnerships for the College of Education that promote and support the technology initiatives that build stronger teachers.**

**Strategy 1: Collaborate with PD Partners (West Kentucky Educational Cooperative, the Badgett Center, KDE Region I Service Center, and Regional Early Childhood Center) to effect a greater level of cooperation.**

**Activities and Timeline**

Ongoing Beg. 2000, Spring	Develop and post a web site for the PD Partners cooperative providing information on professional development opportunities for service area
Ongoing	Collaborate with other regional universities and EPSB to define data collection needs for long-term data

**Strategy 2: Develop partnerships with school districts in service area that develop collaborative relationships that promote the use of instructional technology by all partners.**

**Activities and Timeline**

Ongoing	Seek opportunities to develop partnerships and promote grant initiatives that address the effective use of instructional technology to promote good teaching and learning
Ongoing Beg. Fall 2001	Partnered with local districts on a middle school initiative promoting the use of web-based courses and developing a website containing middle school resources
Ongoing Beg. 2001	Partnered with local districts on a special education initiative creating an alternative certification program
Fall 1999- Summer 2003	Partner with the BellSouth Foundation and school districts to promote the infusion of technology into classrooms targeting 65% of the faculty in partner districts (Fulton Independent, McCracken County, Paducah Independent, Owen County and Taylor County)
Summer 2000- Summer 2003	Partner with the U.S. Department of Education and school districts to promote the infusion of technology into the teacher education program (Implementation Grant, District Partners: Paducah Independent, McCracken County, St. Marys, Crittenden County, Marshall County, Murray Independent, Calloway County, Christian County and University Heights) by providing ongoing training opportunities for supervising teachers in PK-12 partner districts and creating an electronic learning community that promotes discussion of pedagogy and practice that will lead to successfully infused technology
2001, Spring to Summer 2003	Partnered with the Kentucky Department of Education to promote the use of instructional technology in Kentucky school districts

**Strategy 2: Develop partnerships with school districts in service area that develop collaborative relationships that promote the use of instructional technology by all partners. (COMPLETED)**

Fall 1998- Spring 1999	Partner with the BellSouth Foundation to promote the use of instructional technology by teachers in partner districts (Fulton Independent, Carlisle County, Hickman County, Ballard County)
1999, Spring	Partnered with the Kentucky Department of Education to promote the use of instructional technology in Kentucky school districts
Summer 1999- Summer 2000	Partner with the U.S. Department of Education and school districts to promote the infusion of technology into the teacher education program (Capacity Grant, District Partners: Paducah Independent, McCracken County, St. Marys, Christian County and University Heights)
Summer 1999- Spring 2002	Partnered with Olympia, Washington, and Calloway County Middle School to promote the use of instructional technology utilizing student mentors who were assigned to Calloway County teachers and Murray State College of Education faculty and purchased a server to share resources