

2000-2001

INFORMATION TECHNOLOGY VISION PLAN

For

The School of Social Work

The University of Texas at Austin

Barbara W. White, PhD, Dean
A. James Schwab, PhD, Chair Technology Comm.
Robert Canon, PhD, IT Classroom
Julie Cunniff, Exec. Asst.
Peg Kramer, Student Dev. Spec.
Egidio Leitao, Accountant
Carol Lewis, Assoc. Dir. CSWR
Jennifer Luna-Idunate, MSW, Career Dev. Spec.
Mary Mulvaney, Field Faculty
Beau Nelson, Spec. Proj.
Clay Shorkey, PhD, Faculty
John Trapp, MSSW, Network Adm.

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Executive Summary

Social work is a multi-faceted cross discipline profession. Our students need both specialized knowledge and a broad perspective on all issues affecting the human condition. The study of social work requires enormous complex information about people, society, and service. With information technology we can improve the educational experience for both students and faculty by providing better access to content. There are vast information resources available to us. We need the technology and support to incorporate them into curricula and deliver them to students. Our vision is to provide the information and technology necessary for faculty and students by providing the resources for information access and presentation technologies. We seek a learning experience that emphasizes mastery of content and analytical ability. We can provide complete information support to faculty and students, while making it easy for them to access and use, by providing appropriate resources for development and delivery. This requires equipment resources, information resources, and personnel resources.

The School has a strong vision of what it could do given the resources. It understands the potential and utility of information technology in the classroom and the profession. However, small schools face formidable challenges in attaining and maintaining technology resources and support staff necessary to operate at a level consistent with other departments. We can easily exhaust our annual allocation simply providing equipment, software, and maintenance for a network, a computer lab, and an IT classroom. At current funding, we must proceed incrementally with little left for contingency or life cycle budgeting. The School of Social Work greatly appreciates every effort by The University to improve the disparity of resources between schools. Each implementation has a dramatic effect on our ability to improve and provide technological resources. The FCI, BBP, and recent Microsoft agreement have made significant contributions to offset our operating expenses. The special project and multimedia allocation we received from The University allowed us to open our first IT classroom.

We are committed to our students and will continue to utilize our ITAC funds to provide them with the best possible technology and support for education and training. However, we need financial support that goes beyond our current allocation, to upgrade our facility, and provide us with renewable funding for support staff and equipment for ITAC eligible projects, as well as, faculty, staff, administration, and research. Our proposal is to improve our ability to produce and deliver information resources in our classrooms. We have 4 proposals eligible for ITAC funding and 1 non-eligible. They are listed in the table below.

Proposal (ITAC Eligible)

Cost Classroom Presentation and Instructional Technology

IT equipment in 6 classrooms and Utopia Theater	\$111,500
IT Classroom and LRC Maintenance and Upgrade	
Life cycle equipment and support	\$46,100
School of Social Work Web Resource Portal	
Dynamic Web portal of social work and cross discipline resources	\$46,800
Video Production, Video taping, editing and production equipment	\$63,900
Total ITAC	\$268,300

Proposal (Non-ITAC Eligible)

Faculty and Administrative Technology Upgrade

Life cycle equipment upgrade

\$48,000

Total Non-ITAC

\$48,000

Total Proposal

\$316,300

School of Social Work Vision

Social work is a profession that touches all aspects of the human condition. Our students are trained to work in a variety of settings, needing both a high degree of specialized knowledge and the ability to see the big picture. For example, a case worker in the mental health field may need to incorporate physician, psychologist, and pharmaceutical instructions; family and external support assessments; available community services; federal, state, and local assistance criteria; cultural issues; and a thorough understanding of client needs, wishes, and rights into a coherent work plan. Social workers are called upon to make potential life and death decisions in child and elder abuse, welfare eligibility, drug and alcohol treatment, domestic violence, sexual assault, parole, gang prevention, victims services etc. Still others take knowledge of direct services and apply it to advocacy, community organization, program evaluation, policy analysis, politics, and management. Thus, the study of social work requires enormous complex information resources about people, society, and service.

The goal of the information technology vision plan in the School of Social Work is to provide complete information support for all of the School's instructional programs. We wish to improve the educational experience for both students and faculty by taking advantage of the opportunities and resources made possible by the ongoing development of information technologies. In the past technology posed a pitfall for a discipline like ours. It was easy to get trapped by the steep learning curve and expenditure of time just in learning the technology and miss the vast resources and information it provides. For example, one issue we struggle with is do we train students to search the Internet for information, a course by itself, or do we provide them with the information and focus on developing their critical thinking and analytical skills? We choose to incorporate technology and its by-products into our classes and not to restructure our classes around emerging technologies. In a model, not dissimilar to that of assigned readings, we seek a learning experience that emphasizes mastery of content over mastery of technology. Fortunately, this model fits both an increasingly technology savvy student and the current trend of cross platform and integrated software that smoothes the transition from thought to outline to final document to presentation and distribution. Integrated software makes it possible for our faculty and students to become individually proficient in information technologies without necessarily a comprehensive understanding of the technology. However, both development and presentation requires access to current and future products and delivery systems of information technology.

Our school will celebrate its 50th anniversary next year. Much of the past 50 years was spent in shifting from place to place in search of a building. Now that we have an excellent facility with classrooms, office space, and connections to the UT backbone, we have turned our vision inward toward developing a state of the art facility that provides the information and technology needs of faculty and students. In just a few years we have evolved from trying to keep up with technology to trying to have our technology keep up with us. We seek to provide complete information support to faculty and students by providing the appropriate resources for development and delivery. This requires equipment resources, information resources, and personnel resources. We will achieve our goal, if we can provide the following:

Equipment Resources for the development and delivery of information technology;

Information Resources that are clearly identified or specifically designed to support curricula, enhance student understanding, enhance teaching effectiveness, and promote

professional growth, research, and community service;

Personnel Resources for technical expertise, support, and maintenance.

While we have made great strides toward actualizing this vision, there are some substantial gaps. We upgraded our network to a switch architecture with complete 10baseT connection throughout the building and filled our IT classroom and LRC computer lab to capacity, our multimedia lab and video recording studio are functioning, and all full-time faculty and staff are using at least 68040/486 desktop machines. The School has a number of Internet servers employing database technology hosting a variety of internal and external services from on-line testing and application forms to a searchable community-wide database of human service volunteer and employment opportunities.

We suffer most in our ability to move forward, limited to only the smallest of incremental steps, and to sustain growth by providing renewable funding for support staff and equipment upgrades. This results in substantial gaps in teaching effectiveness, recruitment, community service, and research. Unfortunately the gaps grow wider for us as time progresses. In the area of personnel, we have a small technical staff, with a high level of technical expertise, as well as professional degrees in social work but, we do not have additional funds for support. Thus rather than development and training, our technical staff are primarily engaged in basic day to day operations of support and maintenance. In equipment, only one classroom has built-in computer/video projection capability, which took us over 2 years to complete, and almost 50% of our faculty, staff, and student lab computers need to be replaced--about 21% are 68040/486 processors and unable to use current integrated or cross platform software and 26% are first generation PPC and Pentium, which are slow and easily overloaded.

Facilities and Staffing

School-Wide Network

Our network router and hubs were recently replaced with a newer switch architecture. This was necessary to support the IT classroom and ensure Y2K compliance. We also provide a router slot for Central Duplicating and port for the University Child Care Center, both located in our building. At this time, all of the computers used by students, faculty, and staff are connected to the University's network through Ethernet connections. All full time faculty and staff are using at least 68040/486 desktop machines. The School has several dedicated servers. Internally they provide cross-platform file sharing, networked printer access, run LabMan software to manage the LRC Computer Lab, manage the IT classroom, and provide utility, diagnostic and installation software. Externally they provide Internet services, especially database applications ranging from on-line testing and application forms to a searchable university-wide database of TA/RA job applicants and a community-wide database of human service volunteer and employment opportunities.

LRC Computer Laboratory

The laboratory is managed as an open facility, not limited to social work students. The lab is used by students, TA's, AI's, RA's, and faculty with low end personal workstations. The computer lab is filled to capacity with 24 workstations, 12 PPC and 1 G3 Macintosh and 6 Pentium I and 5 Pentium II Dell machines.

Instructional Technology Classroom

The School has just completed its IT classroom with 15 additional workstations and a ceiling mounted projection system. It has a total of 30 Pentium II Dell workstations and an instructor station.

Multimedia Production Facility

The LRC has a video production studio and a PPC 8600 AV computer workstation with photo, graphics, and authoring software, a color scanner, digital camera, slide scanner, and CD burner.

Staff Support

The School has three full time technical support staff and one part-time graduate assistant.

A senior systems analyst, who is responsible for network administration, Web resources, training, data analysis, technical support for faculty and staff, and supervision.

A systems analyst, who is responsible for the IT classroom, the LRC computer lab, student support, and faculty IT projects related to curriculum development.

A systems analyst, who provides faculty support and special projects.

An assistant (Graduate), part-time, who is responsible for student support in the LRC computer lab.

Proposed Projects (ITAC Eligible)

Project Title: Classroom Presentation and Instructional Technology

Faculty and students have consistently asked for improved video projection and computer presentation capabilities in classrooms. For years we have pushed faculty and students to develop and integrate information technology into their course work without being able to provide a platform for them to adequately present it. There is a real need to be able to incorporate instructional technology resources including computer and Web based multimedia instructional materials, CD-ROM and traditional media such as videotape into classroom instruction. Students in almost every class can benefit from presentation materials. Excerpts of movies, TV programs, special PBS programs, etc. can easily give students graphic illustrations of the concepts faculty are trying to teach in class. Furthermore, students of this generation tend to be more visual and less fond of the traditional teaching methods. Currently, faculty fight over scheduling existing VCR/monitors mounted on wheeled carts. We only have one mobile LCD projector for shared use and one mounted permanently in the IT classroom.

We would like to equip each of six classrooms with a secure wall mounted rack housing VCR, receiver, and distribution amplifier, with speakers and ceiling mounted LCD projector. This would allow for the presentation of video, computer based multimedia, and Web based resources. With one switch an instructor can turn on all rack components while adjusting sound and controlling projector output with wireless remote. Along with the projection systems, the school would like to purchase 4 laptop computers to be shared among presenters. The six permanent facilities will be augmented by 2 mobile hutches with VCRs and video monitors. The hutches will also contain a laptop and portable data projector which can be used with the hutch or transported to other locations on and off campus.

In addition to our traditional classrooms, we would like to equip the Utopia Theater with state of art presentation and instructional technology. It is a wonderful presentation and teaching facility in the School, however it is not installed with any audio/video technology short of a microphone equipped lectern. Currently there are six social work classes meeting there and it is regularly scheduled by other departments. The School could use it for various video and downlink conferences we now schedule and pay for at other facilities. The Utopia Theater has been approved for remodeling by The University, so an equipment installation at this time is advantageous.

This proposal is for \$48,000 to install secure presentation equipment in six classrooms, \$10,000 for 5 shared laptops, \$32,500 to equip the Utopia Theater, and \$21,000 to outfit 2 mobile hutches. This is a one time equipment expenditure of \$111,500. Expenditures are outlined in the table below.

Year One Cost

(6) Classroom presentation equipment @\$8,000	\$48,000
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(5) Laptops/software @\$2,000	\$10,000
(2) Mobile AV/Computer hutch @\$10,500	\$21,000
Utopia Theater	\$32,500
Total Cost	\$111,500

Project Title: IT Classroom and LRC Maintenance and Upgrade

This proposal is for funding to maintain our IT classroom and LRC computer lab so that faculty and students can teach and learn in a first class environment. The school has made significant contributions to both the IT Classroom and LRC computer lab. The school provided students with a computer lab facility before most faculty had desktop computers. Using a combination of ITAC funds, and student IT and LRC fees the school has put all its student generated technology funds into equipment and support for these facilities.

The laboratory is managed as an open facility used by students, TA's, AI's, RA's, and even faculty with low end personal workstations. It is open 7 days a week. The lab is filled to capacity with 24 workstations, 12 PPC and 1 G3 Macintosh and 6 Pentium I and 5 Pentium II Dell machines. The lab is informal and students can work in groups, which is a substantial component of social work curricula, but generally disallowed in other facilities on campus. The school's IT classroom opened last year. With the addition of 15 workstations at the start of classes this year and a ceiling mounted projection system, it is now completed. It has a total of 30 Pentium II Dell workstations and an instructor station. The room was equipped with furniture with recessed monitors for maximum instruction effectiveness, visibility, and desktop space. It is our primary teaching and presentation facility and is currently engaged full time by 6 courses and scheduled by others when necessary. Our original plan was to have this as an open facility that could be scheduled by other Colleges. This is particularly attractive with the expansive after hours parking available. However, we realize that without full-time support staff for scheduling, security, and maintenance, we currently cannot open this facility to other departments.

We are requesting funds for life cycle maintenance, support, and upgrade of equipment in the IT classroom and lab. In the lab some of the workstations are dated making integration with other workstations and group collaboration on projects difficult. (They will be used to supply other areas of the school where students have requested workstations such as student services and the Office of Career Development.) Support costs (i.e., software, network charges, insurance, and maintenance) are annual fees that eat a large chunk of our small ITAC budget that could be put to more innovative uses. We do not have a personnel position funded solely to provide support for the lab and IT classroom limiting their usefulness to us and The University.

We are requesting \$12,800 for the immediate replacement of 8 first generation PPC workstations, \$6,000 for support (i.e., software, network charges, insurance, and maintenance), and \$27,300 for one full time support staff position. The total cost of the proposal for Year One is \$46,100. We are requesting \$16,000 to replace the remaining 4 PPC and 6 Pentium I workstations in the lab in Year Two. Support and personnel are recurring annual costs. Projected over three years at present staffing and salaries the total cost with Year Two improvements would be \$128,700.

Year One Cost

Total Equipment	\$12,800
Support (i.e., software, network charges, insurance, and maintenance)	\$6,000
Computer User Services Specialist	\$27,300
Total Cost	\$46,100

Year Two Cost	
Total Equipment	\$16,000
Recurring Annual Costs Support (i.e., software, network charges, insurance, and maintenance)	\$6,000
Computer User Services Specialist	\$27,300

Projected Total 3 yr. Expenditure \$128,700

Project Title: School of Social Work Web Resource Portal

This proposal is for funding of personnel to develop and implement a dynamic Web portal of social work resources. This is primary to our goal of providing information support to faculty and students, while making it easy for them to access and use. The database will be a complete repository of searchable, annotated, and indexed social work links to on-line resources. Its purpose is to minimize the time it takes faculty and students to both learn how to search effectively and to locate useful resources by providing one primary source of current content directly related to our curriculum and specialization areas. Faculty and students will use the database to access information resources. At the same time, they will feed the database with new information. Items will be directly linked to courses and specialization areas. It will be a primary resource for student information searches, faculty curricula development, and the social work community. It will also provide an opportunity for the Center for Social Work Research to showcase and disseminate faculty projects and better integrate research into teaching. Library staff have agreed to provide training and support for Internet search and indexing techniques and information and access to existing library resources. This resource will also move us one step closer in preparation for delivering on-line courses. We plan to work closely with our Library departmental contact in all phases of this project.

There is no equipment cost associated with this project. It can be developed using existing School servers in Filemaker. As traffic increases it will be migrated to a faster and more accessible network system using Cold Fusion or other emerging technology. The only cost is personnel for development and implementation. This plan is projected for a three year implementation. Year one will involve development of the database and Web interface, consultation with faculty for curriculum needs and resources, and research to identify, annotate, and gather resource links. In year two, staff will continue building the database and focus on assisting faculty to develop and incorporate Web resources into their curricula, with emphasis on programs such as WebCT. In year three we will continue the activities of year two and liaison with Library departmental contacts to either include or export the database prototype to other cross disciplines: Psychology, Nursing, Human Ecology, Public Affairs, etc. Successful implementation of this project could easily have a national audience. Certainly other specialty portals have garnered a wide audience and usefulness on the Web. So far there are none that sufficiently cover the broad issues of social work nor any that have a cross discipline approach as we propose.

Although we have the technical expertise to implement this project, the amount of work involved in creating and maintaining a dynamic resource of this magnitude exceeds our current staffing. Therefore, we are requesting funds for 1 half-time systems analyst and 2 half-time RA positions at a total cost for salary and fringe of \$46,800. Projected over three years at present staffing and salaries the total cost would be \$140,4000. In years two and three the RA positions could be filled by social work interns. Expected duties are listed below.

(1) half-time Systems Analyst--Supervise RA's, develop and maintain database and Web interface, train and support faculty in developing curricula materials, liaison with

Library contact and other departments

(2) half-time RA position--research and gather links, annotation, editing, faculty support

Year One Cost

(1) half-time Systems Analyst	\$22,000
(2) half-time RA position	\$24,800

Total Cost \$46,800

Projected Annually for a Total 3 yr. Expenditure \$140,400

Project Title: Video Production

Field faculty, who teach practice courses with a heavy emphasis on experiential learning and modeling of technique, are currently working on video projects to provide consistency for content commonly repeated in a number of course sections. A major obstacle has been not having internal resources both equipment and staff support for taping and editing. The same type of equipment and staff support could help all of the faculty make fuller use of special speakers. For instance, the School often has practitioners from the community come and tell students how they work with special populations, or how they approach a certain problem with their clients. Each speaker's content could potentially be taped, edited, and made available for presentation to other classes or for self-paced instruction.

This proposal is a one time expenditure for tape recording and editing equipment for taping presentations, demonstrations and curriculum content enrichment projects, digital production equipment for producing finished video and multimedia products, and personnel costs for one half-time graduate assistant level support staff (RTF student). We are requesting \$27,000 for video recording and editing equipment, \$24,500 for digital editing equipment and software, and \$12,400 for one half time RTF graduate assistant. The total cost of the project is \$63,900. Support staff is a recurring annual cost. Projected over three years at present staffing and salaries the total cost would be \$88,700.

Year One Cost

Video taping and editing equipment	\$27,000
Digital editing equipment and software	\$24,500
(1) half-time graduate assistant position--From RTF	\$12,400

Total Cost \$63,900

Recurring Annual Costs

(1) half-time graduate assistant position--From RTF	\$12,400
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Projected Total 3 yr. Expenditure \$88,700

Proposed Projects (Non-ITAC Eligible)

Project Title: Faculty and Administrative Technology Upgrade

This proposal is an effort to receive funds from internal University sources for a life cycle funding strategy to replace and upgrade out of date resources. These are workstations used by full time faculty, full time staff, and as file and Internet

servers performing administrative, teaching, and community service functions. The goal of the information technology vision plan in the School of Social Work is to provide complete information support for all of the School's instructional programs. This rests heavily on the capability of using cross platform and integrated technology, which either does not work on 68040/486 processors or runs too slowly on first generation PPC and Pentium platforms.

For years we have pushed faculty to develop and integrate information technology into their courses. However, we were not able to provide necessary resources and personnel support making the learning curve and extra work load an insurmountable task for all but a few innovators. Now that development of materials is much less daunting due to integrated software and increased ACITS training and support, we still are held back by resources. In almost a Field of Dreams, 'if you build it, they will come' scenario, we have found that those with better resources are more actively engaged in developing instructional technology materials for their courses. For example, faculty that used our new IT classroom to present a few concepts last year, are now teaching their entire course using presentation and Web based material. Clearly if a person cannot use integrated software on their own workstation, they are not going to be developing instructional materials for the Web nor even aware how easy and effective it can be.

We are requesting \$48,000 for the immediate replacement of 20 68040/486 processor and 10 first generation PPC and Pentium I workstations. The total cost of the proposal for Year One is \$48,000. We are requesting \$32,000 to replace an additional 20 PPC and Pentium I workstations in Year Two and \$16,000 to replace 10 more in Year Three. Projected over three years the total cost would be \$96,000.

Year One Cost

Total Equipment	\$48,000
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Year Two Cost

Total Equipment	\$32,000
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Year Three Cost

Total Equipment	\$16,000
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Projected Total 3 yr. Expenditure	\$96,000
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IT Funding Overview and Life Cycle Methodology

Small schools like ours face formidable challenges in attaining and maintaining information technology resources and support staff necessary to operate at a level consistent with other departments. We can easily exhaust our annual allocation simply providing equipment, software, and maintenance for a network, a computer lab, and an IT classroom. There are few resources for staff support and none left for new project startup and innovation. We are committed to our students and will continue to utilize our ITAC funds to provide them with the best possible instructional technology for education and training. However, we need some mechanism to provide renewable funding for support staff and equipment for ITAC eligible projects, as well as, faculty, staff, administration, and research.

The School of Social Work greatly appreciates every effort by The University to improve the disparity of resources between schools. Each implementation has a dramatic effect on our ability to improve and provide technological resources. The FCI, BBP, and Microsoft

agreement have made significant contributions to offset our operating expenses. The special project and multimedia allocation we received from The University allowed us to open our first IT classroom.

Funding Sources

Our annual ITAC allocation is used primarily to maintain our computer lab and partially pay for one professional staff position to oversee the network and overall technology operations. For example, this year we exhausted our reserves to complete our IT classroom and computer lab. Without additional funding, we cannot plan for contingency, life cycle renewal, complete infrastructure projects, nor put anything toward development and innovation. This severely impedes our ability to compete with other schools of social work and produce the graduates, research, and products that represent us as a flagship institution.

Our infrastructure for information technology has great potential. Our facility is newly renovated, all of our classrooms and offices have Ethernet connections, and we have a wonderful presentation and teaching facility in the School, the Utopia Theater. Unfortunately that potential is yet unrealized. Our newly completed IT classroom is our only facility with audio/video presentation capability. We have no other classrooms with even rudimentary presentation capabilities nor is the Utopia Theater installed with any audio/video technology short of a microphone equipped lectern. Also missing is one fully funded technical staff position devoted to the IT classroom and computer lab.

In addition to ITAC we use our M&O budget, when available, to purchase new equipment for faculty and administrative staff. Students contribute greatly to the School. They are assessed 5 fees, some of which pay for technical staff and, in special cases, equipment. Recognizing the need for support staff, students voted to implement an IT fee and raise the LRC fee to provide support in the computer lab and IT classroom. The FCI is our only source of new computers for new faculty and unfortunately these purchases do not provide trickle down resources for the rest of the School.

The Center for Social Work Research has been our best source of renewable technology resources. Research projects add equipment to their budget when possible. However, since the majority of our funding sources are state and local and projects tend to be short term with small budgets, equipment purchases are limited and generally only provide for one CPU. In addition, equipment purchased on a project can be requested to be returned to the funder at project completion. Still this has been a source of new equipment for faculty with research projects and, through trickle down, the best source of getting equipment for the School.

With the current state of technology demanding faster and newer processors the school is no longer able to use trickle down effectively as a renewable source for replacing obsolete resources. Almost 50% of our faculty, staff, and student lab computers are out-dated--21% 68040/486 and 26% first generation PPC and Pentium. These are generally useful only as auxiliary workstations when replaced.

Staffing

The School recognizes it is at a significant disadvantage by not being able to provide annual funding for adequate staff support. The School has three full-time professional technical staff. One is funded mostly from ITAC and the other two are paid from the student IT fee. All three have a high level of technical expertise, professional degrees in social work, and many years experience in database, Web, and IT development. With additional support, their skills could be better utilized by the School. Currently their time is spent on day-to-day operations providing: maintenance and support for the network, computer lab, IT classroom, and faculty and staff resources; basic student support in the lab; and special projects such as Y2K, the vision plan, and new computer installations. With additional staff to provide basic day-to-day operations support for the IT classroom and computer lab, our professional staff would be free to provide technical expertise and vision to assist and guide students and faculty in the pursuit

of innovative ideas in education, research, and curriculum development.

Appendix I - Total IT Summary Expenditures Report for 1998-1999

Category	Expenditure	Funding Source
Staff (Salary/Fringe)		
Sr. Systems Analyst	\$ 53,006	ITAC
Systems Analyst (2)	\$ 91,924	IT Fee
RA/TA	\$ 3,050	IT Fee
RA/TA	\$ 15,633	LRC Fee
Equipment		
IT classroom and LRC Computer Lab	\$ 40,120	ITAC
IT classroom and LRC Computer Lab	\$ 3,556	LRC Fee
Facilities		
IT classroom and LRC Computer Lab	\$ 28,808	ITAC
IT classroom and LRC Computer Lab	\$ 8,664	LRC Fee
Network (Equipment)	-0-	
Other		
Software	\$ 530	ITAC
Support/Maintenance	\$ 8,865	ITAC

Appendix II - Infrastructure Summary 1998-1999

School-Wide Network

Our network router and hubs were recently replaced with a newer switch architecture. This was necessary to support the IT classroom and ensure Y2K compliance. We also provide a router slot for Central Duplicating and ports for the University Child Care Center , both located in our building. At this time, all of the computers used by students, faculty, and staff are connected to the University's network through Ethernet connections. All full time faculty and staff are using at least 68040/486 desktop

machines. The School has several dedicated servers. Internally they provide cross-platform file sharing, networked printer access, run LabMan software to manage the LRC Computer Lab, manage the IT classroom, and provide utility, diagnostic and installation software. Externally they provide Internet services, especially database applications ranging from on-line testing and application forms to a searchable university-wide database of TA/RA job applicants and a community-wide database of human service volunteer and employment opportunities.

Instructional Technology Classroom

The School has just completed its IT classroom with 15 additional workstations and a ceiling mounted projection system. It has a total of 30 Pentium II Dell workstations and an instructor station. Other IT equipment shared between classrooms is a LCD projector and 3 VCR/Monitors on carts.