

**THE UNIVERSITY OF TEXAS AT AUSTIN
INFORMATION TECHNOLOGY ADVISORY COMMITTEE**

**SCHOOL/COLLEGE/ADMINISTRATIVE UNIT VISION PLAN TEMPLATE
FOR AY 2009-2010**

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

IT Programs (*IT programs requiring recurring funds for salaries, operations, etc.*)

Infrastructure (*overview of IT system – facilities, CPUs, servers, networking, security, IT-equipped classrooms, etc.*)

Current and proposed funding sources for IT programs and infrastructure (*describe sources of funds – ITAC allocations, fee income, endowments, donations, etc.*)

• SCHOOLS/COLLEGES

Architecture

Overview of Current IT Programs & Infrastructure

Mission Statement

The Office of Information Technology is tasked with the provision and management of all information technology resources for the students, faculty, and staff of the School of Architecture. It is our mission to provide secure, reliable, and relevant technologies to support the educational, academic, and service missions of the School.

Computer Lab

The School of Architecture Computer Lab, located in Sutton Hall 1.102, provides dedicated computational, input, and output resources to all students enrolled in classes within the School. There are over eighty workstations, flatbed scanners, a 42” wide large format scanner, and 3 teaching zones with digital projectors. The computer lab is open from 8am to 11pm Monday through Thursday, from 8am to 6pm on Fridays, from 10am to 8pm on Saturdays, and from 10am to 11pm on Sundays during long semesters.

IO Central

IO Central contains the centralized printing and plotting equipment for the School and equipment checkout (including digital cameras, LCD projectors, and laptops), and provides a central location for students needing IT assistance. The facility adjoins the Computer Lab and has the same hours of operation. It houses a central print server with queues for the various printers and plotters, including eleven plotters, two color laser printers, and two black and white laser printers.

IO Staff

The Computer Lab and IO Central are staffed by twelve half-time graduate students per long semester. Six of these positions are funded by Teaching Assistantships, while the other six are paid as salaried Graduate Assistants from ITAC and other funds.

Digital Fabrication

The School currently hosts four major pieces of technology for digital fabrication: a 3D printer that produces plastic models from digital input, three laser cutters that cut and etch sheet material through a printer-style interface, a CNC router that can cut shapes and route surfaces out of sheet material up to 3” thick using a digital control system, and a 3D non-contact laser scanner that can produce three-dimensional digital models by scanning physical objects.

Design Student Computer Policy

The School has implemented a student computer policy for all undergraduate and graduate students enrolled in our design degrees: architecture, interior design, and landscape architecture. The students are required to provide a laptop and specific design software. Support of this initiative is provided by requiring extended warranties for hardware issues, leveraging the ITS Helpdesk for general hardware and software issues, and providing application assistance through IO Central.

Technology Classrooms

The School has two auditoria, seven classrooms/seminar rooms, and two studios with installed projection systems. There are also three schedulable teaching spaces in the Computer Lab for direct technology instruction.

Review Spaces

The School has several dedicated review spaces all of which are slated to have digital visualization equipment, either digital projectors or HDTV’s installed in the near future.

Network Infrastructure

Goldsmith Hall has up-to-date networking infrastructure, with a Gigabit backbone, Fast Ethernet to the desktop, and a Cat-5e SCS. The West Mall Building and Battle Hall are running Fast Ethernet over a CAT5 cable plant. Sutton Hall has had a partial network upgrade, including a Gigabit backbone, Gigabit service for servers, and Fast Ethernet to select portions of the building; however, it still requires completion of the SCS and additional network equipment to bring it up to standards.

Server Infrastructure

The School currently has three Windows 2003 Servers: two newer Dell PowerEdge Servers – one runs our intensive printer and plotter services and the other runs our

local network file sharing and software licensing; the third server is running legacy web hosting and ftp services.

IT Staff

Director of Information Technology

Responsible for IT vision, management of IT staff, administration of all IT related budgets, network administration, server administration, software licensing and distribution, Computer Lab workstation administration, and computer support.

Network Analyst

Faculty and staff computer administration, LAN administration, Computer Lab supply management, security implementation, inventory, and computer support.

Webmaster

Design, administration, and content management of the School of Architecture web site.

IT Office Manager

Inventory and supply change management, Bevo Bucks and print charging administration, IT and IO Staff outreach and training scheduling, web based content updating, and process documentation and improvement.

Current and Proposed Funding Sources

(portion of total IT budget)

ITAC

(17%)

Our AY 2007-08 ITAC budget is \$126,904. Increased special project funding through ITAC has historically been an important method of funding for major instructional technology initiatives and projects. This account is the primary source of funding for student computing.

SOA Special Equipment Account

(13%)

A portion of the School of Architecture's annual operating budget is the Special Equipment Account. The annual Special Equipment budget is approximately \$97,500. This account is the primary source of money for faculty and staff computing; it incorporates the provost's former CLC and FCI funds and is also used to support our visual resources, materials lab, and

design lab facilities, and to fund technology programs and projects.

SOA Instructional Technology Fee (flat rate fee allocation) (23%)

The AY 2007-08 budget is \$166,796. This account currently pays 48% of our IT staff salaries. The remainder is used to fund technology programs and projects. This allocation was increased by \$50,000 in AY 2008-09 and is planned to increase an additional \$30,000 in AY 2009-10. These increases are being funded through tuition increases and represent an increasing investment in information technology by the School.

SOA Classified Salaries Budget (17%)

Currently, \$126,400 (52%) of IT staff salaries comes from the School's classified salaries budget; this represents a very significant investment by the School in information technology.

SOA Teaching Salaries Budget (8%)

Currently, \$59,200 of IO staff compensation comes from the School's teaching budget.

Provost's Tuition Assistance Budget (6%)

Currently, \$41,200 of IO staff compensation comes from the Provost's tuition assistance budget.

SOA IT Revolving Account (15%)

All IO Central pay services are charged to students through the BevoBucks system. In addition, faculty and staff may use the input and output devices in this facility if they provide a UT account number. These funds go into the SOA IT Revolving Account and are used to pay for consumables, maintenance, and other cost of operating the Computer Lab, IO Central, and our digital fabrication facilities. Activity on this account is a good metric of the volume of services provided to our students; even with our minimal cost-recovery pricing AY 2007-08 revenues on this account were \$108,000.

Business

Overview of Current Programs & Infrastructure:

This vision plan establishes the strategic goals for information technology improvements for the McCombs School of Business for Academic Year 2009/2010 and beyond.

Vision/Mission/Goals of Unit

As a general statement of policy, we will adopt the most relevant business-related hardware and software technologies for the McCombs School of Business as it becomes commercially available and meets our quality of service needs. We will accomplish this through strategic alignments with a set of premier corporate information technology partners and judicious use of ITAC fees, the business school's information technology fees, tuition allocations, state allocated funds, grants, and donations derived from selected industry and government entities.

Infrastructure:

The McCombs School of Business currently operates:

- **Data Center:**
 - 80 servers, a three-node SAN, approximately 19TB of storage. Key services include:
 - Exchange 2007 cluster providing 200MB mailboxes for students
 - SQL cluster for enterprise applications and stand alone servers for use by faculty and students for class projects
 - Multiple web servers for hosting the McCombs website, individual student sites and class web projects
 - SharePoint servers to provide students with individual SharePoint sites accessible from both on and off campus
- **Five student computer laboratories.**
 - **The Millennium Lab**, our main general use facility, is comprised of 160 workstations, of which six are dedicated to student team use; these six stations have been configured with dual monitors to facilitate working in groups with large documents/spreadsheets. This lab also has network connections for 166 notebook computers. This proctored lab is open continuously from Sunday at 2pm until Friday at 9pm; and on Saturday from 10am-9pm.
 - **The Mod Labs**, two modular classroom labs, are designed specifically for instructional use. These labs can be reserved for lectures, labs, presentations, and examinations. There are 40 seats in each lab with a removable partition so that the two rooms can be used independently or as one large 80-seat lab. When not reserved, these labs are available for general student use.
 - **The PhD Lab**, which contains eight workstations, runs extra software in addition to our normal Common Operating Environment (COE) and is reserved for PhD students only.
 - **Technology Training Labs**, designed for software application training and other advanced classes. These training facilities are designed for easy customization of OS and software configurations, with typical classes ranging from a few hours to a couple of weeks in duration as needed.

- **Classrooms and additional network & power enabled areas**
 - **Classrooms** have been enhanced with projection equipment, network ports, and connections for laptop computers (both wired and wireless).
 - **The four Cohort Rooms** are classrooms used by the MBA Program for MBA core classes. Each room has power and 100Mb switched Ethernet ports at each of the approximately 85 seats.
 - **The Reliant Productivity Center** is a 250-seat technology-enhanced study area. Each seat is equipped with a 100Mb switched Ethernet port and power outlet. This facility has been designed to provide both individual workspaces and group areas for students to work on team projects. This facility is open at all times and proctored from 8am-12am.
 - **The 3rd Floor Atrium** is an open lounge/work area with 50 power outlets and 100Mb switched Ethernet ports. Recent improvements to the lighting in this space have made it a much more popular location for study and collaborative student work.
- **Wireless network access areas** covering all CBA and GSB classrooms and public spaces. This wireless coverage has led to a marked increase in the use of computers and IT resources both in and out of the classroom.

Communication

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

The mission of the College of Communication, according to Dean Roderick Hart, is four-fold:

As the most comprehensive academic unit of its kind in the United States, the College of Communication is too large and too complicated to have but one mission. Instead, its mission is four-fold:

An intellectual mission: (1) to ensure that the traditional arts and sciences remain central to the study of human communication, (2) to collaborate with faculty members in the arts, humanities, and social sciences across campus to address the most pressing issues of the day, and (3) to make communication training central to the educations of all University of Texas undergraduates regardless of major.

An entrepreneurial mission: The world is being made smaller by the Communication Revolution and the College must work to understand what that means by (1) building close ties to the communication professions, (2) vigorously pursuing interdisciplinary activities, (3) staying current with new interactive and aesthetic technologies, and (4) pursuing an increasingly international agenda.

A pedagogical mission: Here is our future: We live in an era of media convergence where once-separate industries - radio, television, advertising, newspapers - are being folded into vast media conglomerates. The College must prepare its students in multiple ways as a result, helping them reach across the various communication disciplines for new insights, new skills, new forms of expression, and new kinds of employment.

A social mission: The mass media are implicated in all that happens today. Political campaigns are heavily determined by media perquisites; enlightened health care depends on savvy information campaigns; the nation's youth are being inundated with popular culture; the world has become unknowable without a discerning press. This collection of facts makes communication training both a practical matter and a moral one as well.

The University of Texas is devoted to generating intellectual excitement in its students, transforming their lives, and turning them into leaders. That is the College of Communication's business as well.

IT Programs

The Dean's Office operates Business and Technology Services (BATS). The Technology Services group represents the bulk of technology support available in the College. We support every department, research unit and program in the College. Our web site is <http://communication.utexas.edu/technology/>. Along with other Dean's Office units, we receive administrative support from Business Services. Currently, Technology Services consists of twenty-one full-time employees and typically around half that many part-time student workers. Skills and duties revolve around three primary areas: Customer Support, Engineering and Instructional Design/Web Development. We also have a dedicated datacenter/network administrator.

Customer Support provides direct patron support. Our Help Desk solves technology problems for College owned computers, audiovisual systems in classrooms, and provides limited support for personally owned student or faculty systems (liability limits the extent to which we can help). Media Services manages the Media Center and related facilities to provide checkout equipment, media duplication, a media library and playback facilities. Finally, Lab Operations maintains College and departmental computer labs and provides assistance for faculty, staff and students using our labs.

The Instructional Design and Web Group helps faculty and staff to develop and implement instructional technologies, and supports the development of both our academic and administrative web presence.

The Engineering team is responsible for long-term projects, large-scale "roll-outs" of technology equipment, providing purchasing specifications, and maintaining our

inventory of computers for rapid deployment. Engineering's primary focus is to free up time-consuming and complex logistical tasks from the other units, so that they may provide more efficient and effective service to our patrons.

Technology Infrastructure

We maintain technology equipment in five buildings (CMA, CMB, LAC, UA9 and WWH). We have over 1000 College-owned computer systems, 300 printers and over 60 servers. All of these are connected by one of the more advanced networks on campus. We employ multiple Gigabit and 10-Gigabit connections to the campus network, and now provide Gigabit connections to every student computer lab desktop.

Our Help Desk maintains the standard security practices on campus, ranging from the deployment of anti-virus and firewall software provided by University site license, to advanced software deployment and desktop management systems (see Best Practices below). In addition to email or voicemail methods of contact, we have a direct phone line and two physical help desk locations in close proximity to our patrons and facilities.

Today, 31 classrooms (College, departmental and General Purpose) and a few conference rooms are outfitted with instructional media systems. These consist of a digital projector, an audio system, audio and video sources (VCRs, DVDs, etc.) and laptop connections. Most of these rooms include built-in computers and high quality document cameras. These rooms largely conform to the standard classroom control system deployed throughout the campus, through a cooperative effort with many colleges, under the guidance of the Technology Classrooms Committee (TCC), wherein the College is represented. We have deployed over sixty wireless access points throughout our buildings to provide Internet access for our increasingly mobile, "always connected" population.

Individual departments within the College also maintain technology support infrastructures. Journalism employs technical support staff to maintain their photography and broadcast television equipment. Radio-TV-Film staff work closely with students during the various production and postproduction phases, and are called upon to match hardware and software capabilities to aesthetic vision. Advertising and Communication Studies employ Graduate Assistants to support their labs. Departments are primarily responsible for determining the nature and scope of activities within their facilities. Technology Services works with the departmental staff to help facilitate their needs.

Because many Communication courses are not taught within the Jesse H. Jones Communication Complex, our faculty cannot always depend upon their classes being scheduled in University classrooms that meet their technological requirements. It is critical that the colleges continue to improve the University's classroom technology capabilities, through the combined efforts of the Tech Deans & Directors Group and TCC.

Technology Funding

For FY2008-09, the College of Communication received \$441,473 from the University-wide Information Technology Advisory Committee fund. We also generate \$1,525,362 from the College's Information Technology Fee (ITF) allocation. Other instruction-related projects, many of which involve a great deal of IT resources, are funded through a \$838,980 Communication Learning Equipment Fee (CLEF).

A portion of the ITAC Fee allocation goes towards supporting the CMA Lobby, a facility open to all University students. It follows an open plan akin to those of the Flawn Academic Center and the Fine Arts Library, to facilitate student collaboration, study and interaction. The space supports individuals and groups, providing power and data circuits for laptop computers. As in FAC and FAL, laptop computers are available for 24-hour checkout. However, technical infrastructure is not the main focus of the space.

The principal use of the ITF is to support professional and temporary staff, as outlined above. Additional projects are funded to support Technology Services initiatives, as described in the next section.

CLEF provides for much of our instructional equipment, software and services. The process of allocating these funds represents department-specific needs and is distributed based on project proposals submitted after discussions with department chairs. Technology Services uses these proposals to anticipate and plan infrastructure upgrades. Note that only a portion of this fee represents IT expenditures, as many other learning needs are served by this funding source.

Other sources of funds for technology equipment include a Special Equipment Fund allocation to each department, and various state and federal grants. Some of this goes to support research activities, or are used to support other maintenance needs, such as "refreshing" computers for non-faculty appointments (instructors, clinical staff, etc.). Finally, Computer Life Cycle and Faculty Computing Initiative funds provide for initial or refresh computing purchases for faculty, augmented with funds from endowed professorships, chairs and the like. In each case, Technology Services provides purchasing support in the form of quote generation and specification.

Education

Overview of Current IT Programs and Infrastructure

Mission and Goals

Through its mission of teaching, research, and service to the state and nation, the College of Education at The University of Texas at Austin prepares outstanding teachers and other educational leaders and advances society's knowledge of teaching and learning. An integral part of the College's mission is to prepare education professionals who understand, and are skilled in, the educational uses of technology. The College is committed to preparing educators who can effectively use and teach with technology so that they can, in turn, impart to their students the skills and knowledge necessary for a complex 21st century economy, with its critical need for workers who can use a wide variety of technologies.

The College's Vision Plan Committee has developed the following technology goals that have been addressed on an ongoing basis by previous Vision Plans and other technology initiatives:

- Continue systematic College-wide strategic planning of information resources and technologies based on input from students, faculty, administrators, and staff.
- Develop high levels of technological competence in the College's students, faculty, and staff.
- Provide access to high performance digital services and global online resources to support teaching, research, and service.
- Provide access to information technologies for all members of the College community and provide the support and experience needed in a range of technology applications and environments likely to be encountered in the workplace of the 21st century "Knowledge Society."
- Infuse technology into all phases of teaching, research, and service and develop new models, tools, and strategies of instruction based on the latest technologies.
- Provide students, faculty, staff, and other community partners with online collaborative environments and network access, both on and off campus, to promote the sharing of the information they need for study, teaching, research, and administration.

IT Organization

The College-wide Learning Technology Center (LTC) manages most of the College of Education's technical facilities and services. The LTC's Technical and Network Services develops and maintains the data networks, all College servers, and an e-mail/conferencing system, and provides a technical help service for faculty/staff. LTC Services maintains nine computer lab/classrooms, provides an equipment checkout service, and delivers equipment, such as mobile laptop labs, to classrooms. The LTC's IDEA Studio helps faculty integrate the best uses of technology into their instruction and research. The LTC also provides a teleconferencing classroom.

The LTC's Web Designer maintains the College and LTC Web sites and leads the College's Web Committee. Each academic department and other major offices designate an employee representative to the Committee who is in charge of maintenance of that department's sub-site. Some departments, including Educational Psychology, Educational Administration, and Kinesiology and Health Education, also have an additional employee who provides technical assistance for the department faculty and staff. Read more about IT programs that have a major impact on the College's IT organization in Appendix 1.

Infrastructure

In the last three years, the College of Education has equipped 31 of its classrooms with projection systems. Laptops and document cameras are available for delivery. The College has also renovated its Science Education Technology Classroom, SZB 316. This room has projection, instructor console, 30 iBook laptops in a mobile laptop cart, and science lab workstations.

Below is a list of the computer labs or IT-equipped classrooms within the Learning Technology Center and their resource specifications. All labs have access to ITS Printing Service laser printers.

- Distance Learning Classroom, SZB 323: Instructor console, rear projection, cameras and microphones, technician-operated, providing interactive audio and video links via IP Codec, UT network, telephone, or webcast.
- Advanced Applications Lab, SZB 324: Wireless network, instructor console, dual rear screen projection, laptops provided on request. Seats 40.
- Open Lab, SZB 439: 6 Dell Pentium 4s and 6 iMacs. Scanner available. Always "open" for student walk-in use.
- Multimedia Research and Development Lab, SZB 439A: 10 Mac Pros, 10 Dell Pentium 4s, instructor console, and ceiling-mounted projection.
- Macintosh Lab, SZB 439B: 30 Intel Core 2 iMacs, instructor console, and ceiling-mounted projection.

- PC Lab, SZB 439C: 24 Dell Pentium 4s, instructor console, and ceiling-mounted projection.
- Model Technology Classroom, SZB 439E: 25 Apple iBooks, wireless network, instructor console, rear projection, and 2 plasma screens.
- Laptop Collaborative Area, SZB 536, 537: Group and individual seating for 40 to use and charge laptops, collaborate, and study.
- Laptop Compatible Classroom, SZB 518C: Wireless network, large screen projection, seating for 23.
- Assistive Technology Lab, SZB 518E: Specialized equipment to demonstrate accommodations for the needs of people with disabilities.
- Kinesiology Lab in BEL 844: 13 Dell Pentium 4s, laser printer.

Additional computer equipment available for classroom delivery:

- Mobile presentation cart: 1 in SZB with MacBook with PowerPoint, wireless network connection, projector, and speakers.
- Mobile Laptop Class Cart: 4 in SZB, 1 in BEL equipped with MacBooks and wireless network connections.

Video editing facilities include:

- 3 Digital Video Editing Bays in SZB 537
- Digital Stereo Audio Mixing Room in SZB 537

Other equipment available for student and faculty checkout includes:

- Mini DV Camcorders, Digital Still Cameras, Digital Audio Recorders
- Apple and PC laptops
- LCD Projectors
- FireWire Hard Drives
- Microphones, Speakers, Conference Phones

The Learning Technology Center's Technical & Network Services team maintains the College's computer data networks and servers. Pertinent data:

- Switched data network with 100% full duplexed 100 Mbps Ethernet connectivity. 1580 active network nodes spanning 5 buildings.
- Wireless networking in 4 buildings.
- TeachNet e-mail/conferencing/chat system averages 2,841 logins per day.
- The College has 33 servers, running Mac, Windows, and Unix systems.
- The College's Web server averages 116,826 requests per day.

Current and Proposed Funding Sources for IT Programs and Infrastructure

- 19-9706-00—Annual Infrastructure Allocation and One-Time Project Allocation (ITAC Funding): \$360,741
- 19-2638-22—Learning Resource Center Usage Tuition, including \$30,000 from Dean's Office for Vision Awards and LIFE software: \$445,660

- 14-7482-80—Deans Research and Support Account, supporting Vision Awards and LIFE software: \$1071 balance forward from 2007-2008
- 30-2101-27—UT Libraries UTOPIA Grant, supporting Vision Awards: \$6638 balance forward from 2007-2008

Engineering

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission/Goals of Unit

Engineering continues on its diligent **vision** to foster world-class learning through the innovative and appropriate integration of technology into the curriculum.



- Enhance the educational **experience** through student- centered learning
- Provide a supportive **environment** to nurture STUDENTS, faculty, and staff
- Foster a first-class learning **community** that reaches beyond the classroom

The consistent **mission** of Information Technology is to optimize the Cockrell School of Engineering by providing its people with information technology resources that are relevant, accessible, reliable, and useable through planning, collaboration and skills.

Goals are identified annually to further these values aligned with the needs of students, faculty and staff.

IT Organization

An **IT Policy Committee** consisting of Departmental Chairs, and chaired by the Associate Dean for Academic Affairs operates on behalf of the Engineering School at large as an advisory panel to the Dean. Departments convene their own **IT committees** in order to help inform this overarching endeavor. Departmental IT Managers meet

regularly with the School's IT director and serve as the **Engineering Technical Advisory Group (ETAG)**.

Infrastructure

Engineering's heritage of Learning Resource Centers, Studio Classrooms, laptop/tablet mobility carts, robust server infrastructure, Faculty Innovation Center, deployment of Multimedia Teaching Podiums (64 classrooms), pervasive wireless infrastructure (248+ access points in 6 buildings) and Laptops for Learning Initiative (now entering its 13th year) depict the consistent efforts of Engineering to identify and address the practical roles of Information Technology to improve pedagogy.

Engineering has led the way in virtualizing server infrastructures and is leading the way in developing a broad-spectrum virtual desktop infrastructure.

Current and proposed funding sources for IT programs and infrastructure

Engineering leverages the ITAC allocations for visionary IT projects at typically greater than a 100% matching level. We have yet to commit any Vision Plan funding toward recurring expenses and we aspire to continue this commitment.

The primary funding for the Cockrell Scholl of Engineering to support the IT infrastructure and activities is flat-rate tuition, ~4M/year. ITAC has typically contributed \$480,179 in infrastructure funding and the ITAC one-time project funding has continued to plummet as reflected in the table below.

Fiscal Year	Vision Plan Allocations
FY 03-04	\$281,920
FY 04-05	\$189,000
FY 05-06	\$170,000
FY 06-07	\$120,638
FY 07-08	\$87,784
FY 08-09	\$82,000

This is especially unfortunate since the Cockrell School of Engineering makes innovative use of this funding and leverages it with matching funds. In addition, this reduction in funding comes at a time when funding should be greatly increased.

Industry donations are a rarity these days for academic activities, but Engineering was able to secure about \$92,000 this past year toward the Virtual Desktop project.

Historically these sources of funding have been incrementally consumed by increases to operational obligations and rate increases have not kept pace with needed funding amounts. The recent series of budget-cuts and campus taxations are continuing to compound the financial challenges for academic IT endeavors just as services need to scale to meet broader and more pervasive needs.

Fine Arts

Overview of Current IT Programs and Infrastructure

The College of Fine Arts, one of 18 colleges and schools at The University of Texas at Austin, consists of three academic units – the Department of Art and Art History, the School of Music and the Department of Theatre and Dance – and two non-academic units – the Blanton Museum of Art and the Performing Arts Center. With nearly 2000 students, 226 faculty and 223 classified and professional staff, it could be described as one of the small to mid-size colleges on campus.

The College of Fine Arts at a glance

Departments

Department of Art and Art History
School of Music
Department of Theatre and Dance
Jack S. Blanton Museum
Performing Arts Center

Personnel

1852 students (fall, 2007)
226 Tenure-track Faculty
223 Classified and Professional Staff

IT Division Services

Help Desk
Networks and Servers
Technology Classrooms
Computer Labs (Fine Arts Library,
TADL)
A/V Support (T&D)
Fine Arts Web

IT Staffing

College – 11 FTE, 13 part-time (includes
T&D)
Art – 2 FTE, 13 part-time
Music – 3 FTE, 9 part-time

Programs

Recurrent ITAC funding is used to support the routine operation of the major student computer laboratories and IT infrastructure. The College reserves a portion (about 52%) for classroom, web, helpdesk and network support, and distributes the remainder to the three academic units proportionally, based on their generated semester credit hours.

Infrastructure

The College of Fine Arts has a growing number of computer laboratories, technology classrooms and other special purpose facilities:

Computer Laboratories and Technology-enhanced spaces

- Richard T. and Jan J. Roberts Reading Room (located in the Fine Arts Library)
- Fine Arts Student Services Center (Ground floor, Doty Fine Arts Building)
- Art Lab (ArtL, located in ART)
- Design Lab (DesL, located in ART)
- Music Microcomputer Lab (MML, located in MRH)
- Theatre and Dance Lab (TaDL, located in WIN)
- Teleconference Suite (MRH 2.636)
- Fine Arts Recording Studio (MRH 2.638)
- Specialty Laboratories
 - Electronic Music Studios (EMS, located in MRH)
 - Piano Keyboard Labs (2 in number, located in MRH)
 - Multiple Recording Control Rooms (located in MBE)
 - Vocal Arts Lab
 - Music Education Lab (located in MRH)
 - Transmedia (located in ART)
 - Digital Photography (located in ART)
 - Robotic Lighting (located in WIN)

Technology Classrooms

- ART 1.102, 1.110, 1.120 (General Purpose), 2.206, 3.432, 3.433
- DFA 2.204, 3.218, 4.104
- MRH 2.604, 2.608, 2.610, 2.614, 2.634, 2.636, m3.112, m 3.114, 4.115, 4.126, 4.130, 6.248, 6.628
- WIN 2.112, B202, 1.134, 1.148, 2.136

Funding for IT programs and infrastructure

Annual funding for Information Technology is expected to increase by almost 2% this year, from \$1,174,958 in FY 2007-08 to \$1,197,913 in FY 2008-09 (budgeted). This number is an amalgam of several funding sources: the Fine Arts Instructional Technology Fee, recurrent and project-specific ITAC funding, state appropriated salaries and user fees.

Overall IT Funding			2007-08	2008-09	
			Actual	Budget	% Change
Fine Arts Instructional Tech	19-3490-41		\$ 514,240	\$ 522,809	1.67%
ITAC (Recurrent)	19-9708-00	**	\$ 115,583	\$ 116,842	1.09%
ITAC (One Time Project)	19-9708-00		\$ 159,009	\$ 155,000	-2.52%
ITAC Digital Image Lib * see note below			\$ 29,290	\$ 29,290	0.00%
State Appropriation	20-3480-10		\$ 219,488	\$ 226,275	3.09%
User Fees (Recording)	19-3490-18		\$ 27,000	\$ 33,000	22.22%
Other Local (Design)	19-3490-39		\$ 68,948	\$ 70,813	2.70%
Other Local (Equip-Newcomb)	19-3490-48		\$ 41,400	\$ 43,884	6.00%
	Totals		\$1,174,958	\$1,197,913	1.95%

Geosciences

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission/Goals of the Jackson School of Geosciences

Mission: To advance understanding of the Earth, its resources, systems, and environment, for the lasting benefit of humankind.

Vision: To become the preeminent geosciences program in the country with international prominence in geology, geophysics, energy, mineral and water resources, and in the broad areas of the earth sciences, including the Earth's environment. To realize this vision, the Jackson School will pursue initiatives that

- Place the school at the forefront of research.
- Place the school at the forefront of education, student services, and student opportunities.
- Create the fabric of a great college.
- Increase our competitiveness for top talent.

The Jackson School's goal is to develop the finest geoscience curriculum in the world and to provide world-class, state-of-the-art teaching facilities using IT resources to implement best practices for student learning in the geosciences. To do so we need to create and maintain flexible, modern technology classrooms, state-of-the-art teaching laboratories, and the ability to use critical technology in the field. With the recent hiring of 15 new faculty, we will significantly broaden and expand our curriculum into new frontier areas. As our School continues to grow, our continued need for IT resources is paramount.

Department of Geological Sciences, located in the Geology building, is the sole department within the school. It serves our own 291 undergraduate and 182 graduate students as well as approximately 3,000 non-major undergraduates who take our diverse earth science courses as electives each year. Our undergraduate enrollment has expanded by 64% since we became a separate college in the Fall of 2005 and our graduate enrollment is one of the largest in the country.

IT Organization

The Jackson School of Geosciences consists of one academic department and two organized research units, the Institute for Geophysics and the Bureau of Economic Geology. Each unit maintains its own IT personnel and structure and functions independently. This fall, the School set up an ad hoc IT committee to review and coordinate intra-school IT needs; the committee is composed of a senior systems analyst from each unit, 3 full time faculty, 1 faculty member with a joint appointment in each unit, and 1 research scientist from the Institute for Geophysics.

The department, which has sole responsibility for the academic program, currently has 2.75 FTE of classified staff positions to maintain the servers, network, instructional equipment, desktop computers (both PC and Mac), workstations (Linux), student computer labs and teaching labs, and provide end-user support for faculty, students, and staff. The department has an IT steering committee that assesses IT needs and priorities of the educational program and is composed of 3 faculty, an undergraduate student, a graduate student, and our IT staff.

IT Infrastructure

IT system:

In the department we maintain twelve servers that include web hosting, data storage, and shared software and licenses. We also have a server infrastructure that supports Citrix Provisioning Server, that has 80 lab and classroom computers that boot from shared virtual disks over the network. We have an aging Cisco 6500 router and eight ageing 48-port switches in the old wing that can handle 10/100Mb bandwidths and 60 ports that support 1Gb. There are a similar number of switches in the new wing. All switches in the old and new wings connect to the router with 1Gb fiber and the router is connected to the rest of the university with 2 1Gb fiber uplinks. We do not have a departmental firewall at this time. Individual desktop computers have security software from BevoWare. The Jackson Geology Building is nearly completely covered by the UTNet wireless network with denser coverage in the larger classrooms.

Starting in January 2009 we will also occupy most of the top two floors of the E.B. Schoch building. We are in the process of upgrading the networking in this building with a Cisco 4500, which will allow more drops to offices and labs, and provide 1Gb to some workstations. The upgrade of the network will also have 10Gb connectivity between the two buildings and the other two Jackson School units on the Pickle campus.

IT – equipped classrooms and student labs:

The department has two computer classrooms: 1) a lecture style room primarily used for lectures and labs that integrate software demonstrations, 3D visualizations, and problem solving software; this classroom has 21 computers with 4 gigabyte RAM and dual monitor 20” screens and a large format printer. 2) a geophysics lab used in labs by students to analyze and interpret seismic data with 10 high performance workstations (2 CPU, 2.33 GHz, 8 Gigs) with 2 24” monitors all connected to a Sun SPARC Enterprise server (for Landmark, Mat Lab, etc.) with Sun StorageTek SAS Array – 9 TB Disk Space to hold high-end data, plus a large format printer.

The department has two student computer labs, one with 20 PCs and two printers for all students to use for more routine tasks (homework, word processing, email, etc.) and a higher end lab with 27 computers with 4 gigabyte RAM and single monitor 20” screens

and two printers and a large format plotter for upper division undergraduates and graduate students. Using Citrix Provisioning Server, the computer lecture classroom and high end student computer lab have the same image, and students can have the same software in the computer labs as they use in the classrooms to work on assignments and projects. In addition, the Citrix Provisioning Server allows the same computers to be used for both PC and Linux with a simple reboot to change the operating system, which greatly increases our flexibility in teaching. The geophysics and general purpose computer labs also use the Citrix Provisioning Server infrastructure to allow flexibility and speed in deploying new systems and software to our students.

The department also has a Digital Morphology Visualization lab containing seven high-end PC workstations running 64-bit Windows operating systems with a suite of specialized 3D visualization and graphical processing software. In addition to paleontology, there are many other potential Earth Science applications of this facility in geophysics, hydrogeology, and other fields.

The Jackson Geology Building has 19 technology classrooms with LCD projectors, PCs, Macs, and Doc cameras. Of these, 8 are used for labs associated with lecture classes and the rest are general purpose classrooms.

Security:

Our program-specific technology classrooms and labs are all protected by Locknetics SmartLocks. All faculty, staff, and students have been issued an iButton instead of keys to these rooms. Because of the different scheduling needs of the general purpose classrooms, we did not put SmartLocks on those rooms. The locks, door closers, software, and dedicated laptop for the security database were purchased with departmental and other funds.

Current and Proposed Funding Sources

ITAC allocation (08-09: \$78,517 for infrastructure and \$19,000 for one-time project use) is currently being used, as described above, to pay salary and fringe for our end-user support person who provides daily trouble-shooting and operational advice to approximately 560 users in our department, software licenses and annual fees, and life cycle replacement of our AV equipment in our technology classrooms and computers in our computer labs and teaching classrooms. We are requesting continued support of these activities.

Income from flat-rate tuition tech fees portion (08-09: \$129,000) currently covers the salary for 1.75 FTE IT staff; it is our expectation to continue to cover these costs through this funding source.

Endowed Jackson School funds of \$33,000/year have been promised to the Department starting 08-09 for deep cleaning the larger lecture halls twice a year and to pay the yearly cost of having CNS IT group provide daily maintenance (salaries for fluffers/help desk) our technology classrooms.

We propose to use funds from the Undergraduate Instructional Equipment fund to purchase microscopes for the new undergraduate petrology labs to go with the requested IT support.

School of Information

Current IT Programs and Infrastructure

Vision/Mission/Goals

The School of Information aims to be the premier research and education program for 21st century information professionals who will apply the theoretical and practical knowledge necessary to preserve the past, manage the present, and design the future.

Our mission is to shape information realities for human and social benefit by:

- Discovering new and vital knowledge about information
- Educating the next generation of leaders in the information professions
- Developing new scholars who will advance knowledge
- Improving society through service and collaboration
- Applying human-centered values to all our work

IT Programs

Information Technology Lab

The Information Technology (IT) Lab serves as the general service computer lab for School of Information students. Staffed by School of Information graduate students, the IT Lab provides 32 PCs running Windows XP and 18 Apple computers running Mac OS X, as well as access to a variety of specialized software, network resources and hardware items (both for in-lab use and check out). Due to limited physical space at the School of Information, the IT Lab also serves as the primary space for student work, with access to information technology, reference works and other teaching tools. The staff provides one-on-one instruction for students, faculty and staff as well as short courses on many topics throughout the semester. As part of this teaching effort, the lab staff also produce a variety of instructional materials, ranging from pamphlet-style handouts to streaming video tutorials.

Digitization Classroom

Our digitization classroom in the Sánchez Building offers 29 switchable Mac/Windows stations for student use. An IMLS grant has made it possible to supply each of these stations with a variety of audio and video equipment (analog and digital) to support our expanding digitization curriculum. The instructor station, which also provides both Mac and PC platforms, includes a document camera, VCR, and DVD player, any of which can be projected in high resolution for instructional purposes.

Advanced Digitization Lab

The advanced digitization lab in the Perry-Castañeda Library (PCL) has six high-end Windows XP workstations. Each has a specialized sound card to interface with professional turntables, reel-to-reel decks, cassette decks, and other audio equipment in conjunction with specialized audio digitization software. The PCL lab also has video digitization and editing capabilities, including conversion equipment from VHS, SVHS, 8mm, and Umatic tape formats, as well as 16mm and 8mm film to digital conversion.

Kilgarlin Center

The Kilgarlin Center for Preservation of the Cultural Record, housed in the Collections Deposit Library (CDL), is the nation's leading program in archives and preservation. The Center has two teaching labs dedicated to treatment of books, paper, and other delicate artifacts, each equipped with a Mac OSX station, a flatbed scanner and a printer. In addition to standard IT equipment, the Center provides students access to specialized equipment supporting more advanced conservation and preservation techniques such as fiber analysis via polarizing microscopy or digitization of vinyl recordings assisted by microscopic analysis of the record's surface.

IT Infrastructure

Facilities

The iSchool is housed in approximately 10,000 square feet of the fourth and fifth floors of the Sánchez building and 6,000 square feet of the Collection Deposits Library, as well as limited space in PCL and FAC. In these four buildings we have five classrooms, one computer lab and two conservation labs that serve nearly 300 graduate students and approximately 700 undergraduate students. iSchool IT staff support computing and networking services for faculty and staff, including nearly 100 desktop and laptop computers (Macs and PCs). All classrooms, offices, and conference space in the iSchool have high-bandwidth wired network connectivity, as well as wireless capability. The classrooms and dean's conference room include computers (Apple and PC), projectors, VCRs, sound systems, and document cameras.

Personnel

Four full-time and one part-time employees support a wide spectrum of iSchool IT services. This team includes the coordinator for IT / senior system administrator (network and server administrator); an instructional technology specialist (classroom and online course support, digitization); a computer operations specialist (faculty, staff and lab IT support); a system administrator (server administration and user support); and a part-time Web manager. Currently, resources from ITAC, as well as iSchool IT and Distance Education fees and classified budget lines fund these critical positions.

Servers

The iSchool now supports numerous physical and virtual servers, primarily running versions of the Linux operating systems. Our two primary servers provide email, virus and spam filtering, both static and dynamic web publishing, MySQL database access, and numerous other applications of general use by students, faculty and staff. Other servers, many of which are now virtualized, provide more specific functions to the School, such as streaming media in various formats, LabMan lab management software, license provisioning, network-based intrusion detection and digital archivy.

Networking and Security

The Sánchez building, where the majority of the iSchool is housed, has a gigabit connection to UTnet via the College of Education. While not all of our computers are new enough to operate at such speeds, roughly 95% of the networking equipment within our local network at Sánchez and the Flawn Academic Center supports gigabit speeds as well, with the rest providing 10/100 megabit connections. Network connections at the Collection Deposits Library are supported by iSchool-owned network equipment that provides 10/100 megabit connectivity. All spaces are also covered by UT's wireless networking. In addition to software firewalls on all individual computers in the department, the School of Information continues to use bridging or “transparent” network firewalls to protect most workstations and servers from potentially dangerous network traffic. Finally, we employ several network-based intrusion detection systems that allow us to identify and analyze potential threats that make it past our firewalls and other defensive systems.

Current and Proposed Funding Sources

The School of Information gains IT funding primarily from two sources: the percentage of Flat Fee money that replaced our previous IT Fee and money from the ITAC funding process. These primary sources are supplemented by partial funding from other accounts, such as the School's Distance Education Fee (from web-based courses), state funds for portions of classified salary and special equipment. The School of Information was granted a tuition increase in 2008-2009, part of which is dedicated to increasing IT funding.

Law

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission Goals

1. Providing student access to computing resources—Computer Learning Center
2. Maximizing local online resources—Web & Database Services
3. Maintaining and improving computing infrastructure—Computer Services
4. Providing instructional support—Educational Technology Services & Media Services
5. Providing access to information resources—Tarlton Law Library and Computer Learning Center

IT Organization

The Associate Dean for Administrative Services oversees all information technology at the Law School. There are two parts to Law School IT: (1) Law Technology Services of the Law School and (2) the Computer Learning Center located in the Tarlton Law Library. Law Technology Services of the Law School is managed by the Director of Technology. The Law Technology Services department is divided into four areas:

1. Web & Database Services— web services and database services

2. Computer Services—networking, file-sharing, and desktop services
3. Media Services—audio/visual services
4. Educational Technology Services—instructional support for faculty and classrooms

The Law School Computer Committee is comprised of ten faculty members and two students. This committee is chaired by the Director of Technology. The goal of this committee is to advise on IT policies, direction and priorities.

Infrastructure

Computer Learning Center - Student access to computing resources

The Computer Learning Center (CLC), the student computing facility, located in the Law Library, is the center for student access to computing resources. The CLC is managed by the Law Library's Associate Director for Administration and Collection Services. The CLC is operated under contract with ITS User Services. The facility is staffed by a full-time manager (Computer Programmer), a 0.25 FTE lab technician, and 3 FTE student proctors. Hours of operation coincide with those of the Law Library.

- The CLC (renovated in 2004) contains 80 workstations for student use, which are on a 4-year life cycle replacement program. All computers now have Pentium 4 processors and 17" flat panel monitors. Desktop operating system is Windows XP Professional and the applications package is Windows Office 2007. In Summer 2008, 5 PCs were replaced with iMacs.
- Classroom upgraded Summer 2008 to install screens, new projectors and mounted speakers, and Creston control system.
- Server replaced in Fall 2008 - stores images for the lab and classroom desktops, desktops used by law student organizations, the scanning station, and laptops for loan to law students. LabMan is used for station management.
- Print facilities include three PRS printers located in the CLC, a résumé printer, for which students supply their own stationery, and two PRS printers, one located next to the circulation desk and one in a student lounge area in the Law Library, both used for remote printing from laptops. Student print management will be moved from PRS to SharePoint in 2007. The CLC also provides printing for student organizations and journals through two Canon copier/printers. HP 9000 printers are supplied and maintained by the vendors for student printing from the Westlaw and Lexis databases. Pharos printer added to CSO Library.
- 9 Dell D630 laptops are available for 24-hour loan periods to law students. The Law Library also supplies AC adapters to law students. 54 public Ethernet ports available for student use throughout the law school. Wireless Ethernet coverage is available throughout the Law School.
- Law School allows students to take in-school exams on personal laptops through the use of Extegrity software. Annual \$35 fee to each student for the site license
- We participate in both a Dell and Apple laptop purchase initiative, by which our students can purchase a laptop computer with a 3-year on-site warranty at substantial discount. Students may drop off their personally owned laptops for service by Dell-authorized technicians at the CLC.

- Currently, all students are eligible to have the most recent versions of Microsoft Office for PC and Mac installed on their personal computers
- In Summer 2007, the Law Library replaced approximately 60% of its study tables with new tables equipped with electrical outlets for laptop use.

Web & Database Services - Local online resources

The Law School employs three FTE systems analysts, one FTE webmaster, and one FTE web designer.

Major online database systems:

- Law School events calendar and event planning tool
- Law Central online suite of administrative services for course management, grades, admissions, gift processing, scholarship and career services
- Freshlaw Central online notification and information system for incoming students
- Faculty/staff directory/database used to simplify all information updates and online systems
- LawMail student communications system for event and announcement notifications through email, web pages and a new digital signage system (2006)
- Student organization membership system and site maintenance

Major websites (aside from the law school's primary site):

- SharePoint sites for all 11 Student Journals and 40 Student Organizations were rolled out Summer 2007
- SharePoint sites for clinics we rolled out Fall 2007
- Law School web design being refreshed Fall 2007

- Law School sponsored conferences, including on-line registration
- Law Journal websites using content management tools to be added in the near future
- Websites for 6 Centers within the law school

Ongoing maintenance projects:

- Making needed upgrades to old web systems: incorporating the new EID security measures, putting pages into the UT Direct format, Code enhancements and database integrity
- Security evaluation and enhancements for all web interface systems
- Reducing the need for paper printouts by moving as much online as possible.
- Providing analyst support for online systems and automated processes in the areas of Student Affairs, Admissions, Alumni, Career Services and Special Programs. This involves handling data transfers to and from main campus, fixing bugs, making additions and enhancements to current systems and providing direct support to student and staff users.

Computer Services - Computing infrastructure

There are 5 FTEs in the CIC: 1 manager, 1 network administrator, 2 desktop support specialists, and 1 help desk representative supporting approximately 300 Law School faculty and staff users and nearly a thousand students in 12 law journals, 16 legal clinics, and 47 law student organizations

Network Hardware:

- Servers:
 - Network – print, file, LANDesk, domain controllers (10 Windows servers)
 - Email: Microsoft Exchange with Outlook client
 - Blackberry
 - Filemaker
 - MIP (accounting)
 - TimeMatters (case management database for clinics)
 - Extegrity (exam software)
 - MeetingMaker (to be decommissioned)
- TimeMatters (case management system) and SQL Server
- World Server (web server for TimeMatters)
- Admit-M (law school admissions system)
- Backup tape drive
- Several UPS (backup power supplies)

Office Hardware

- ~ 400 Windows desktop computers in building
 - planned 4 year life cycle, but actual replacement time contingent on funding
- ~100 laptops
- ~100 home-based desktop computers

Network Infrastructure:

- Router replaced in Spring 2004 and implemented Cisco annual maintenance contract
- 46 100MB switches with 48 ports each (~2000 of 2208 in use)
- Cat 5 cabling (with some Cat 5e) throughout the building
- Standard 100MB ports (a few 1GB ports)

Media Services & Educational Technology Services - Instructional support

The Media Services department has 2 FTE's available to produce video for classes and web. This department also maintains permanently installed equipment in the classrooms and sets up portable AV equipment in classrooms.

One Faculty Services Representative has primary responsibility to assist faculty with instructional technology, including Blackboard and PowerPoint. The Faculty Services Representative is also responsible for organizing and managing large-scale training opportunities as needed.

Classrooms and other instructional facilities

- Crestron controls available in every classroom. This allows the Media Services department to centrally manage and monitor all classroom multimedia equipment using the Crestron software.
- 5 large and 6 medium classrooms have full multimedia installations with Crestron control systems, projectors, automatic screens, desktop and tablet computers, DVD and VHS players, wireless mics and speakers. (2.137, 3.142, 2.138, 2.139, 2.140, 2.123, 2.124, 3.124, 3.125, 3.126, & 3.127)
- Summer of 2008, three rooms were upgraded (2.137, 3.142 and Jeffers) to include instructional technology.
- An additional 11 rooms have Crestron control systems installed. These rooms have ceiling mounted projectors, wall mounted speakers and wall plate A/V connections for computers, video, and S-Video. Five of these rooms are small classrooms (3.114, 3.115, 3.128, 3.129 & 3.306). Four are Learning Courtrooms (3.310, ic3.312, 3.334, & 3.336) and two are meeting rooms, Eidman Jury Room and the Sheffield Room.

- As technology was added, chalkboards were replaced by whiteboards to protect the equipment and new blinds were added as needed to improve projection.
- Additional outlets added along the walls of several classrooms for student use.
- Digital camcorders and DVD burners were installed during Summer 2005 in the 4 practice courtrooms and DVD players to the 4 viewing rooms adjacent for student mock trials. In the Summer of 2007 LCD screens were added to these rooms to facilitate DVD recording.
- Portable projectors, screens, laptops, and other multimedia equipment are available upon request in other classrooms.
- Wired network connections are available for instructors in all classrooms. Students have wireless Ethernet available throughout the entire law school building, including 2 outdoor areas.
- A 26-station classroom in the Computer Learning Center is used for classes that require computer access, such as Accounting for Lawyers and Advanced Legal Research. The classroom is also used to teach students computer-assisted legal research and other computer skills in one-on-one and group training sessions.
- Wired Ethernet access at each of 60 seats in the Jeffers Courtroom.
- Video conferencing capabilities are available in three rooms within the law school using a Tandberg codec. One of the rooms is specifically designed for distance learning and has microphones installed for up to 22 students. Eidman courtroom and a small distance learning room are also capable of providing video conferencing. A pc-based video conferencing camera is available for individual use. Video conferencing systems are used regularly for student interviews or to bringing in guest speakers for conference events.
- A mobile video conferencing was purchased in Fall 2007 to meet demand for guest lecturers, interviews and events. The need varies by location and is sparse enough to make a mobile unit an ideal and economical solution.
- In the Eidman and Jeffers courtrooms there are automated screens and robotic cameras. However, Jeffers cameras, robotics and switcher are in need of replacement.
- In January 2009, the Eidman courtroom will receive minor upgrades to its video projection and recording system. This will include a mobile 65" LCD, two wall mounted 52" LCDs and interfacing cabling with the Eidman control room. These changes will vastly improve the ability to present and record media in this space.

Other Available Equipment and Services

- All of the large/medium-sized classrooms have built-in wireless microphone systems.
- Multimedia workstation with a high-volume black and white scanner and a high quality color scanner dedicated to the preparation of instructional materials.
- The law school has over 25 Canon multifunction devices that allow users to print, copy, fax and scan material more efficiently and at a less per page cost. This number includes several new devices added during the summer of 2006 in student journal areas, clinic spaces, and faculty areas.
- A CD duplicator is available for distribution of materials on CD-ROM where appropriate
- Instructional Technology Team (collaboration of Web & Database Services, Educational Technology Services, Media Services and Library) is available to help faculty with multimedia presentations (including video) and curriculum development utilizing technology. After infrastructure upgrade and equipment

- installed in classrooms, we plan to expand these projects.
- The Adaptive Technology Room within the library contains technology which assists those who are hearing or visually impaired
- Camcorders, televisions, DVD player's, a digital camera, and other A/V equipment available for student organizations to checkout

Law Library and CLC - Access to information resources

- Subscribe to numerous on-line databases, including LEXIS and Westlaw
- Installed proxy server on Law Library online catalog for off-site access to Web-based database subscriptions.
- Nine public Internet stations are available in library
- Upgraded network infrastructure for student v-lan, including replacement of all network switches and racks and extension of air conditioning ducts to the network closet
- Installed OpenURL link resolver on Law Library online catalog to offer context-sensitive links to external information resources.

Current and proposed funding sources for IT programs and infrastructure

Information Technology Services: \$200 per student per semester. This assessment, along with budget increases provided by the law school, provides just over \$511,000 per year for the Law School and is allocated almost 100% to salaries.

Computer Learning Center Services and Automation: \$130 per student per semester (\$30 per summer session), generating approximately \$400,000 annually. This account supports the CLC and pays for subscriptions to various on-line databases.

ITAC Funding:

2007-08:

Recurring: \$78,014

One-time Projects: \$117,784

2008-09:

Recurring: \$97,195

One-time Projects: \$111,000

Other funding:

1. Law school departments with their own funding (Career Services, Law Library, and Admissions) pay for some or all of their own IT purchases.
2. All other IT programs and infrastructure are paid for from the Dean's Law School Foundation funds or by other Law School sources.

LBJ Public Affairs

Overview of current IT programs and infrastructure

Vision/Mission/Goals of Unit

The Lyndon B. Johnson School of Public Affairs is a graduate component of The University of Texas at Austin. The School's mission is to prepare graduate students for leadership positions in government and the private and nonprofit sectors, organize research to promote effective public policy and management, provide continuing education for public service professionals, and foster community involvement through discussion and debate on issues of public concern. As of the fall semester 2008, we have a total enrollment of 365 students.

Reflecting a growing emphasis on globalization and international aspects of public policy, our Master's curriculum allows students the option of choosing to align their coursework with one of seven areas of specialization; International Affairs, Natural Resources and the Environment, Nonprofit and Philanthropic Studies, Public Management and Leadership, Social and Economic Policy, Technology, Innovation and Information Policy, and Urban and State Affairs. The new Master of Global Policy Studies degree came online fall 2008.

IT Organization

Our Information Technology and Media Services (IT&MS) staff consists of one Desktop Support Specialist, one Media Support Technician, one Webmaster, and one Manager. IT&MS staff support all information technology (including network and security), instructional technology and web activities for the School.

Infrastructure

The building, SRH Unit 3, is at the beginning of an interior renovation that is due to conclude in January of 2010. Prior to the renovation we have nine classrooms, all located on the first floor. Of the nine, two have standard technology consoles and five have what we call "tech-lite" configurations consisting of a ceiling mounted LCD projector with a wall mounted control panel. After the renovation is complete, we will have fourteen classrooms spread out over three floors. These classrooms will have much more flexible configurations and all are planned to be technology equipped. Our plan is to reuse the classroom technology we have where it makes sense and add six additional standard technology consoles.

Currently we operate a twenty-nine seat computer lab located within the Public Affairs Library. As part of the renovation, we will expand space for student laptop usage and reduce the number of lab seats. It is also our intention to double the number of GIS workstations from two to four.

During the 2008 ISORA survey process we identified 250 hosts on our network. We administer the majority of these hosts and manage the internal network. Wireless network coverage is almost ubiquitous now and is planned to fully cover the interior space after the renovation. We are also responsible for all IT life-cycle management.

Current and proposed funding sources for IT programs and infrastructure, AY2008/2009

LBJ ITAC Fee	
salaries	\$58,912
software (SAS, GIS)	\$2,980
lab maintenance (repairs, printing)	\$14,000
LBJ Instructional Technology Fees (local)	
salaries	\$38,933
tech classroom maintenance	\$2,000
Endowments (30 accounts)	
salaries	\$11,250
State Funds (20 accounts)	
salaries	\$82,968
hardware and software maintenance	\$5,000
Total	\$216,043

Liberal Arts

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission/Goals of Unit

The College of Liberal Arts is committed to providing high-quality, technology-enhanced facilities and curricular materials to our 12,000 majors, as well as the tens of thousands of students throughout the University who are enrolled in our many ‘core service’ courses each semester. Since its formation in 1998, LAITS has pursued the linked strategies of supporting the development of network-delivered course materials while expanding the technical capacity of teaching facilities and infrastructure. In order to continue to both innovate and expand instructional technology resources — in spite of budget reductions and the scale of our current commitments — we will focus on programs and practices that increase efficiency and productivity, especially those that leverage existing investments in staff, facilities, and software. Specific goals include:

- Multiply the impact of ITAC dollars by aggressively seeking outside grants for ITAC-supported projects
- Generalize and repurpose ITAC funded software solutions for reuse in other projects and departments
- Improve centralized technical support tools and design systems that make better use of centralized support models
- Integrate design and support of our 70 department and center websites, and hundreds of instructional websites
- Increase the involvement and employment of both graduate and undergraduate students in technology development and support
- Better plan and track the life-cycle of our 4,000 desktop computers to ensure a high-value return on our investment
- Improve and broaden technology support and training for faculty
- Provide tools and facilities to support undergraduate research as part of the instructional experience

IT Organization

IT Staff

Liberal Arts IT support is divided between Liberal Arts Instructional Technology Services (LAITS), central ITS, a Dean’s Office team of administrative application developers, and various departmental staff. (See *Appendix E.*)

Liberal Arts Instructional Technology Services (LAITS)

LAITS programs are divided into the following functional areas:

- **Web Application and Content Development** including: Course Development, Audio and Video production, and Administrative Websites
- **Classroom Technology**
- **Computer Labs**
- **Servers Administration** including: Central Instructional and Media Servers, and support for departmental research servers
- **Networks**

These functional areas include the following major responsibilities:

- Direct management of all network infrastructure, classroom technology, college and department administrative websites, audio and video studios, and multimedia production
- Staff and funding support for instructional technology projects, and instructional servers and computer labs
- Support for research servers and desktops
- Funding and purchasing of faculty computers
- Oversight of desktop support and computer/data security

Administrative Computing Group

The Dean's Office administrative applications development team is responsible for institutional research and core business application development.

ITS User Services

ITS User Services provides support for about 50% of faculty and staff desktops throughout the College and provides limited support for specialized departmental servers.

Departmental IT Staff

Local departmental support staff assist with implementation of most college IT responsibilities. They are responsible for support for about 50% of faculty and staff desktops and direct management of most computer labs and research lab equipment and servers.

Faculty and Student Involvement in IT Governance

The LAITS Advisory Committee serves as both a review committee for faculty IT Grant proposals and a steering committee for instructional technology planning. The committee is made up of IT savvy faculty, students, and LAITS senior staff.

Most of our 21 academic departments also have faculty computer committees. These committees perform a range of functions including advising department chairs on IT issues, assisting in reviewing faculty IT grants proposals, managing departmental IT resources, and keeping colleagues informed about IT issues.

Infrastructure

The College of Liberal Arts and its 53 departments, centers, and programs maintain technology infrastructure in 26 campus buildings.

Web and Multimedia Development Facilities

The web and multimedia development suite in Mezes Hall consists of the following facilities:

- Development Studio for web development and multimedia post-production
- Recording Studio for audio recording and post production
- Video Studio for studio-based video production
- Development Lab for an STA workplace and walk-in assistance for faculty
- Liberal Arts ITS Service Window for assisting faculty members with scanning/digitization and limited checkout of multimedia equipment

Classrooms

LAITS is in the ninth year of its plan to install standardized technology consoles and projection systems in all College classrooms. In 2008-09, Liberal Arts designed and installed the teaching technology for three important projects — 12 rooms in newly renovated Garrison Hall, 6 high profile seminar rooms in the Main Building for Undergraduate Studies, and the School of Social Work's beautifully renovated Utopia Theater. Liberal Arts now supports multimedia systems in over 179 classrooms in Liberal Arts, Social Work, Architecture, Education, Pharmacy and Undergraduate Studies. We have also assisted with design and installation in over a hundred other rooms in Nursing, Law, Natural Sciences, Engineering, Communications, Human Resources, ITS, DIIA, and others.

We maintain 4 standard classroom types: multi-screen auditoriums, single-screen console-equipped classrooms, seminar-style rooms with equipment integrated into the central meeting table, and computer classrooms with computers stations for every student. (See *Appendix F.*)

In addition to our classrooms, Liberal Arts maintains 2 classroom support facilities:

- **LAITS Help Desk in Flawn Academic Center** — From this central location a team of students and one full-time supervisor answer trouble reports by phone and email and dispatch student technicians to assist users.
- **Classroom Shop and Assembly Facility in Mezes Hall** — Three full-time staff with student assistants handle all system design, construction of technology consoles, and receiving and warehousing of all newly-purchased equipment.

Computer Labs

LAITS and the College's academic departments operate 65 instructional computer classrooms and labs, as well as 40 labs dedicated to student research. These facilities are spread across multiple buildings on both the main and Pickle Research campuses. Operating System use in college labs is about evenly divided between Mac and Windows, although Apple computers are beginning to dominate due to their dual-boot capability. Many of our labs can now run either Windows or Macintosh OSX. (See *Appendix G.*) As personally-owned computers have become nearly universal, Liberal Arts has moved away from general use labs and focused on specialized computer labs and classrooms required by specific technology-enhanced courses. Examples of these specialized facilities include:

- The Psychology Neuro-imaging Lab
- The Computational Linguistics Lab
- The Computer Writing and Research Lab used by thousands of Rhetoric and Writing students each semester (<<http://www.cwrl.utexas.edu/>>)
- The GIS instructional classrooms operated by Geography
- The Physical Anthropology Lab with its advanced 3D scanning and viewing equipment
- The many language instructional labs operated by Spanish and Portuguese, French and Italian, LAITS, and others

Server Facilities

Many faculty and departments require specialized network applications to meet their instructional and research missions. Departments request funding for servers by submitting proposals reviewed by the students, faculty, and staff on the IT Grant Review Committee. Whenever possible, equipment is procured during an annual, college-wide bulk purchase.

Liberal Arts departments currently operate 99 servers with the majority being Linux/Unix systems — followed by Mac and Windows systems. (See *Appendix H.*)

Wireless and Physical Networks

The College of Liberal Arts has complete financial and management responsibility for the networks in 18 of its own buildings and for substantial parts of the networks in 7 other buildings. College managers work with ITS to plan upgrades in accordance with campus standards, while LAITS staff do most of the day-to-day management, patching and equipment installation. (See *Appendix D.*)

Security of Facilities and Equipment

Liberal Arts relies upon the central ITS Security Office (ISO) to develop network security practices and procedures. LAITS acts as a conduit between the ISO and the departments by providing information to desktop support personnel, assisting them with identifying insecure hosts, and remediating compromised departmental computers. Recent security mandates and recommendations by the Texas Legislature, UT System, and the University have required the College to take a more active role in maintaining the security of its computer systems.

Liberal Arts has actively participated in conversion of legacy physical security systems to the Building Access Control System (BACS). As a rule, all computer labs and technology classrooms are secured with a combination of article protection and motion detection systems. LAITS administrative staff manages security access credentials and oversee response to security breaches and false alarms.

Current and Proposed Funding Sources for IT Programs and Infrastructure

ITAC allocations and income from flat-rate tuition account for most of the funding for Liberal Arts Instructional Technology programs in 2008-2009. In addition to some service center income, the remainder of our funding is in the form of grants from federal and state agencies.

Table 3: Liberal Arts Information Technology Funding Sources

Funding Source	2008-2009
Flat-Rate Tuition	\$1,515,131
ITAC Recurring Infrastructure	\$647,234
ITAC One-Time Project Allocation	\$1,084,998
ITAC Recurring Joint Projects	\$59,000
ITAC One-Time Projects	\$33,000
Service Center Income	\$27,708
Grants from Federal & State Agencies	\$501,455
Total	\$3,868,526

Natural Sciences

Overview of Facilities

The [College of Natural Sciences](#) is expansive. On the main campus, we occupy thirteen buildings and have a presence in seven more. Our facilities include [McDonald Observatory](#), [Lady Bird Johnson Wildflower Center](#), [Texas Memorial Museum](#), [Brackenridge Field Lab](#), and the [Marine Sciences Institute](#). All of our facilities enrich the educational experience of our students.

Technology Classrooms

The College of Natural Sciences has 54 general purpose classrooms, all with standardized teaching technology. Additionally, departments have more than 33 classrooms and seminar rooms, most of which are equipped with standardized technology. Web resources: [inventory of general purpose classrooms](#) and [inventory of departmental classrooms](#).

Computer Labs

The College of Natural Sciences has 31 computer labs with about 750 computers. Of these, four labs (WEL 2.302, RLM 7.306, ESB 101, and ESB 103) having a total of 177 computers are open to every UT student, regardless of major and current coursework. Web resource: [inventory of computer labs](#).

Science Labs

Students experience what they learn in the classroom in the college's more than 75 teaching labs, most of which include information technology. Computers are used to control scientific equipment, gather and analyze experimental data, and create and print lab reports. Web resource: [inventory of science labs](#).

Wired and Wireless Network

The College of Natural Sciences has the largest 802.11g (54Mbps) wireless network on campus, covering virtually 100% of its dozen buildings on main campus. More than 20 telecom closets filled with networking electronics provide 10/100 and gigE wired networking to classrooms, laboratories, and offices. Web resource: [network overview](#).

Specialized Facilities

Several departments, as well as the dean's office, have multimedia labs offering students access to high-end computers with specialized software, large format printers, color printers, and scanners. Most departments run their own servers, providing web space, file storage, and e-mail to students.

Maintaining Facilities

The College of Natural Sciences has been entrusted with millions of dollars of student fee money over the last decade, and we are dedicated to protecting that investment for the benefit of current and future

students. Maintaining instructional facilities and repairing/replacing equipment as it ages is a huge expense.

Some examples: The college places more than 1,000 computers in front of students. With a four year life cycle, 250 must be replaced each year at a cost of around \$300,000. The college has more than 100 LCD projectors in its technology classrooms and science labs. Replacing aging projectors at a cost of \$4,000 each costs \$100,000 a year. Replacing projector lamps when they burn out costs more than \$50,000 per year.

The college funds two full-time staff and 25 student assistants to maintain its classrooms. We employ off-campus specialists to clean the fabrics and floors in our rooms, remove gum and food stains, and repair and repaint when needed. Web resources: [Classroom Maintenance and User Support Team](#)

Innovation

In addition to maintaining its existing facilities, the College of Natural Sciences uses ITAC funds to support innovative uses of information technology in its instructional programs. The college has leapfrogged traditional Podcasting and provided its students with recorded lectures that include multiple video windows in addition to audio. Students can now watch a recording of their instructor working a math or science problem on a document camera while listening to the explanation. Web resource: [Lectures on Demand](#)

Technology is enriching the experience of students in science labs. Cameras attached to microscopes allow the instructor to project the image from any microscope onto the projection screen for viewing and discussion by the entire class. Scientific equipment now interfaces directly with computers, so students in labs can focus on learning instead of transcribing and graphing data.

Natural Sciences leads the university in the use of student response systems, which allow faculty to ask students questions during class to identify misunderstandings or miscommunications. Every general purpose classroom is equipped with a radio frequency student response system from eInstruction.

Information technology provided with ITAC funds plays an important part in several innovative programs in our college, including the [Freshman Research Initiative](#), [UTeach](#), and the [Division of Statistics and Scientific Computation](#).

Synergy of Multiple Funding Sources

The College of Natural Sciences combines revenue from multiple student fees (including the ITAC fee, the CNS IT fee, and the CNS Equipment Fee) to accomplish projects that would have once been impossible. For every dollar of ITAC funding received, the college invests more than \$1.50 of its own IT fees.

ITAC provides the A/V technology in classrooms that are renovated using other fees. ITAC provides the computers that control scientific instruments in renovated teaching labs. ITAC provides the high-speed wireless networking in newly created student study area. Web resources: [renovation of Welch Hall auditoriums](#), [renovation of introductory Biology labs in Painter](#), [creation of student study areas](#).

Nursing

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission/Goals of the School of Nursing are attached and may also be found at <http://www.nur.utexas.edu/it-ni/stratplan.pdf>. Briefly, our vision, mission, and goals include strategies that encourage and facilitate the inclusion of instructional technology and nursing informatics concepts in the curricula and in our professional and educational tasks. Further, we aim to promote the competent use of technology by faculty and students, by preparing faculty, staff and students to teach and practice nursing in an increasingly technology-based healthcare system. To accomplish this, we must provide sufficient computing power and resources to enable teaching and learning activities that foster the innovative use of technology.

IT Organization

The School's IT structure consists of the Computer Utilization Committee, a dean-appointed committee of faculty, staff and students. This committee meets at least twice a semester and invites all faculty, staff and students who indicate an interest in IT, members of another dean-appointed faculty committee, the Technology Enhancement Committee, and the ITS staff person who manages the student network. These individuals direct the IT efforts of the School, which are submitted to the dean or her designee for approval. Furthermore, these individuals submit ideas and approve the content of the Vision Plan. Prior to the development of the Vision Plan, an email is sent to all faculty, staff and students for ideas of one-time projects to include.

Infrastructure

Classrooms

Most classroom instruction takes place in the Nursing building. With the increasing numbers of students admitted to the professional sequence (80 today vs. 50-60 in the past), we have had to move one of the large lecture classes to campus facilities. To accommodate on-site classes, the school has 5 large tiered (fixed-seating) classrooms, 4 large (flexible-seating) classrooms, and 8 conference/seminar rooms.

One of the tiered classrooms (1.106) is used for teleconferences in the undergraduate and graduate programs, collaborative research projects. In addition, a mobile codec system allows teleconferencing in any space in the School.

All tiered classrooms have University-built interactive consoles. This past year ceiling mounted projectors were installed in four large and two small classrooms. The remaining 4 small classrooms will be equipped with projectors during the spring semester.

Learning Center

The LC consists of 5 areas/services: a nursing/health audiovisual library, a computer facility, a learning enhancement program, a clinical simulation laboratory, and an AV/web production facility. All components of the Learning Center use and teach technology in various ways. For example, an important role of staff in the library is to teach students to search online databases for needed references. The AV/web production facility assists students in the design and production materials for class assignments, patient teaching activities, or the presentation of research data.

The School's Learning Center computer facility has 35 PC computers, creating a network with 100 MB Ethernet access, basic application software such as Microsoft Office, FileMaker Pro, Dreamweaver, Firefox, and many nursing and health-related instructional programs. All computers, managed by LabManager software, provide access to the University printing service. Thirteen of the computers are located in a small classroom, where software-related classes are taught. The 22 computers outside the classroom plus the 13 workstations in the classroom (when not being used for a class) are available to students 67 hours a week.

The Learning Center also furnishes 13 laptops for student and faculty checkout.

Although wireless access was installed in six student areas, one is able to access the network throughout the building. With the addition of the wireless network, more and more students are bringing their laptops to classes and the LC. This phenomenon has accentuated the need for electrical outlets in the classrooms and other study areas.

The Simulation Center features three clinical skills practice classrooms. Students practice various clinical skills and respond to clinical situations using a variety of simulators, from lower fidelity VitalAnne mannequins to task trainers such as IV arms. A second area, the Simulation Lab houses computerized high fidelity simulators (SimMan and a birth simulator) for which faculty create clinical scenarios to challenge or test students' critical thinking skills.

Research Computer Lab

The Cain Center Computer Lab has 9 workstations (7 Pentium IVs and two Apple G4s) equipped with software needed by faculty and graduate students engaged in original research. Software such as SPSS, SAS, N5, nQuery, EQS, and N6 are examples of applications available in this facility.

Faculty and Instructional tools

Faculty are using the following tools with varying levels of sophistication:

- e-mail

- presentation software—PowerPoint®

- BlackBoard® including discussion boards and other communication devices

- WebSpace

- Classroom Response System®

Faculty use computerized testing software, QuestionMark®, and MyNursingLab®, a website that accompanies a textbook.

Two projects have been instituted this academic year involving online instruction. One is a grant from the Seton Family of Hospitals to provide three courses in the RN to BSN program for practicing nurses. One course, Nursing Research was offered in the fall semester. Spring semester '09 two courses, Conceptual Bases of Aging and Leadership & Management of Nursing Care, will be offered.

A second project aiming to increase the number of nursing educators available for area schools of nursing was funded through the State Workforce Commission. The first course, Conceptual Foundations of Nursing Education, was offered in the Fall 08 semester. Two additional courses, Strategies of Teaching and Best Practices in Clinical Education, are being constructed and will be offered in future semesters.

Clinics (Children's Wellness and the Family Wellness Centers)
The School of Nursing manages two health clinics, one for children in the Del Valle Independent School District and one that provides healthcare for underserved families. These facilities provide important sources of clinical practice and research for students and faculty as well as opportunities to use technology associated with the delivery and management of patient care.

IT Staff and Student Network Management
The IT staff of the School of Nursing consists of one System Analyst and one LAN administrator for the School and 1.5 (60 hours) FTE Computer Technician Assistants. Both IT staff positions and TAs are paid from the School's accounts.

Management of the student computer network is contracted (6 hours a week) to ITS. This contract is funded by the SIT account. In addition, a 10-hour/week-student worker, who assists LC staff with new-user education, is funded by the SIT account. A full-time web master is partially (15%) funded by the SIT account.

Network -- 100MB Ethernet throughout building—offices and classrooms
Wireless – available throughout the building

Workstations

Students, financed by ITAC: 2.4 GHz PCs, 512MB RAM

Faculty, financed by FCI, CLC, SON MO&E, Dean's discretionary account and cascades from student workstations: Tenure and tenure-track faculty equipment average 2.0 GHz PCs and Macs. Clinical faculty machines are 1.0GHz or better PCs and 867 MHz or better Macs.

Staff, financed by SON MO&E, Dean's discretionary account and cascades from student workstations: average 1Ghz Macs.

Current and proposed funding sources for IT programs and infrastructure

Currently, the School's IT equipment, programs and infrastructure are funded by a combination of the SIT account, the Dean's Various Donor account, the LC MO&E, the Learning Center Utilization fee, the clinical course fees, and faculty research grant awards (when possible).

The SON benefits from and appreciates the Faculty Computer Initiative (FCI) and Life Cycle Funding furnished by the University. With the exception of occasional funds from the School's MO&E and the Dean's Various Donor accounts, FCI and Life Cycle funds are the only sources of new faculty computers, while the major source for upgrades is cascades from replacement of student computers, which we do every four years.

No new funding sources are anticipated in the future.

Pharmacy

Overview of Current IT Programs and Infrastructure

Vision/Mission/Goals of the Unit

The Learning Resource Center (LRC) is responsible for the information technology support within the College of Pharmacy.

The mission of the LRC of the College of Pharmacy is:

- to support and maintain a reliable and modern instructional technology infrastructure;
- to offer dependable, outstanding service to faculty, students and staff in specific, identified priority areas; and
- to provide professional training and consulting on using technology for productivity and education.

The LRC makes its mission operational by supporting:

- live two-way and multi-point interactive video conferencing
- digital delivery of recorded Pharmacy classes
- computer, audio/visual and educational technology support for classes
- a student computer laboratory (PHR 3.116)
- an instructional materials development facility (PHR 3.112)
- a student audiovisual library (PHR 3.114)
- a computer teaching classroom (PHR 2.116)
- the College website (www.utexas.edu/pharmacy)
- training and consulting in a variety of technical areas
- faculty and staff desktop and laptop computers

IT Organization

The LRC staff is comprise of the following:

Director – manages the Learning Resource Center

Sr. Systems Analyst – administers network and supports desktop computers

Sr. Systems Analyst – develops the Pharmacy website and manages multimedia lab

Sr. Systems Analyst – manages the Pharmacy servers and supports desktop computers
 Development Researcher – supports computerized A/V classroom systems
 RTV V – coordinates Pharmacy videoconferences
 Administrative Associate – manages audiovisual library and LRC office

They report to the Academic Support Committee, chaired by Senior Associate Dean, Patrick Davis.

Infrastructure

Computing Facilities

The College of Pharmacy operates a student computer lab (PHR 3.116), a computer teaching classroom (PHR 2.116), and an audiovisual library (PHR 3.114) that houses computers used for streaming video and general use as well as VCRs and DVD players:

Room	OS	No. of Computers
PHR 3.116	Win XP	32
PHR 2.116	Win XP	23
PHR 3.114	Mac OS X	8

The standard set of software on the computers includes the Microsoft Office suite, web browsers (including specialized plug-ins for media types requested by faculty), and other utilities such as Quicktime. Keyserved software includes Adobe Creative Suite 2 (PHR 3.116) and JMP (PHR 2.116). LabMan is used to manage the computers remotely for all three facilities.

Technology Auditoriums and Classrooms

The College of Pharmacy maintains three videoconferencing classrooms, one auditorium-style large room (seats 136), one auditorium-style medium room (seats 45), and a compact boardroom-style facility (seats 20).

The College placed Liberal Arts Technology Classroom Consoles in three General Purpose Classrooms on the second floor and has installed ceiling mounted projectors, computers, and A/V equipment in all other instructional spaces (denoted as PHR Standard in the table below).

Classroom Inventory

Room Number	Equipment	General Purpose	Capacity	Installed
2.108	127	Liberal Arts standard		Yes
2.110	133	Liberal Arts standard		Yes
2.114	60	Liberal Arts standard		Yes
2.116	45	PHR standard		~75%
2.208	20	PHR standard*		No
2.214	20	Data projector, dual-platform computer		No
3.106	136	Full tech. classroom, not LA standard*		No
3.108	30	PHR standard (teaching lab)		No

3.110	30	PHR standard (multipurpose lab)	No
3.114A	10	PHR standard	No
3.114B	10	PHR standard	No
3.114C	6	Plasma screen only	No
3.114D	10	PHR standard	No
4.114	52	PHR standard*	No

* Classrooms equipped for videoconferencing.

Networking

The College of Pharmacy's network expanded to include the sixth floor of BME when our Medicinal Chemistry Division and their labs moved in August 2008.

Total number of Ethernet ports maintained by the College1282
Number of static and dynamic IP addresses650
Number of 100baseT switched ports1091

Departmental Servers

The College operates three servers for primarily administrative uses:

- Mac Mini, OS X (FileMaker Pro Server)
- Mac Mini, OS X (FileMaker Pro Unlimited - Instant Publishing)
- Mac Mini, OS X (Sassafras Keyserver, Now-Up-To-Date)

In addition, two video servers and a large RAID array are used to publish streaming video to our audiovisual library and feed the video caches installed in our San Antonio and El Paso sites:

- Mac Xserve, OS X Server (QuickTime/MPEG4 Streaming Server, Apache Web server)
- Dell PowerEdge 2850, Windows 2003 Server (Flash Communication Server, Flash video streaming)
- Mac Xserve, OS X Server (Netinfo/WINS Server, Retrospect backup server using Xserve RAID)

Finally, three servers are used for file storage and student lab management:

- Mac Xserve, OS X Server (LRC Fileserver, AFP/ FTP fileserver)
- Dell PowerEdge 2400, Windows 2000 Server (Labman and Application server)
- Dell PowerEdge 2650, Windows 2003 Server (Ghost, RevrDist, and file server)

Portable Projectors and Notebook Computers

Although the College has installed instructional technology in every dedicated classroom, we still maintain a complement of portable equipment for checkout by faculty, staff, and students.

Current and Proposed Funding Sources

The LRC's funding is derived from two student fee income sources, the College's Instructional Technology Fee and ITAC funds. Although the Instructional Technology fee has been combined with the flat-fee tuition, the level of support has not changed. The majority of it is used to finance four staff salaries, workstudy wages and office supplies.

The ITAC funds are used for infrastructure and IT expenditures such as computers, software, videoconferencing equipment, classroom audiovisual equipment, and our network.

The LRC also receives funding from the Dean's Office for three staff salaries, the Director, RTV V and one Sr. Systems Analyst.

Social Work

Overview of Current IT Programs and Infrastructure

We view the Vision Plan as our working document, mapping out directions and expenditures for the coming years. We have followed our plan directly each year making incremental payments, and saving money in reserve, when possible, until we have enough to fully fund projects.

The School of Social Work has made great strides building a technology infrastructure of smart classrooms. However, we have not been able to do much in support of innovative projects. With high implementation costs and planning for recurrent maintenance and support, we are constrained by the relative size of our IT budget. Our ITAC allocation is our primary source of technology funds available to the School and it has been easily exhausted with facility improvements and recurring costs. Thus, we are increasingly reliant on ITS services and collaborative projects and resource sharing with other departments to provide innovation and special projects. The FCI, CLC, Microsoft agreement and departmental volume pricing have made significant contributions to offset our operating expenses. We look to The University to continue to fund and provide low cost central IT resources such as DIIA and ITS software purchasing, network and security support, and help desk training and support. We will continue to partner in joint proposals with other departments to efficiently share resources and raise our overall level of innovation.

As we struggled to build an infrastructure, instructional technology marched on. New teaching methods challenge us to create better learning spaces and expand our "facility" beyond bricks and mortar. We are challenged from within by demands for curricula delivered outside the traditional pedagogy and an expanding field program in remote locations. We are challenged from outside by our community: some recently ravaged by natural disaster, others victims of cuts to travel and professional development budgets, hungry for access, collaboration, and expertise. We are also challenged by other schools of social work offering degree programs here in Texas, and more importantly, on-line from anywhere in the US. Our vision reflects these challenges and is consistent with our IT goals:

- Network connectivity, instructional classrooms and faculty/student resources;
- Curricula development with technology integration and Web-based delivery;
- Network, equipment and support for instructional production and delivery

Vision Mission and Goals

Vision: *"To build an instructional technology infrastructure of network, classrooms, and resources to furnish our students and faculty with a first class teaching/learning environment."*

We are committed to our students. We will continue utilizing our ITAC funds to provide them with the best possible technology and support for education and training. 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 vast information about people, society, and service. Our mission and core values direct us to move beyond the classroom:

Mission: *"Through excellence in professional education, research, and service, The University of Texas at Austin School of Social Work provides national leadership to promote social and economic justice, alleviate critical social problems, and enhance human well-being."*

Core Value #4: *"We believe that, in order to enhance the social work knowledge base, the attainment of our mission requires critical thinking, professional development, and meaningful scholarship. As we improve our ability to transmit this knowledge to students and others effectively, we are better able to alleviate suffering and to promote social justice in the communities we serve.."*

We need information technology not only to improve the educational experience for our students in the classroom, we need resources for development and delivery into the community in which they will be working. A large portion of our student's educational experience is in field work. We seek to maintain open channels of communication between those students, their placement agencies, and our classrooms. Our vision is to support faculty and students, making it easy for them to access and use appropriate resources both in and outside the classroom and to provide engagement and outreach to the community through our students, faculty, and our digital resources.

IT Organization

The School has a Technology Committee with members drawn from faculty and staff representing various departments in the School and Center for Social Work Research. This is a newly revived committee and structured for mostly information gathering and sharing. The committee meets monthly and is chaired by the CFO. Policies and priorities are set by the Dean and CFO in consultation with IT staff.

Infrastructure

ITAC funds are used to support the following areas.

Network Infrastructure

We have 100 Mbps Ethernet capacity, but 95% of the building is only 10 Mbps. There is full wireless coverage throughout the building. In consultation with ITS, we maintain our network maintenance, upgrade, and replacement costs with a combination of School and ITAC funds.

Classrooms

We have seven IT classrooms, one auditorium, and four seminar/conference rooms. Six classrooms and the auditorium have LAITS consoles and are maintained with an annual service contract with LAITS. The seminar rooms have projection and sound systems and three share a VCR/DVD/Doc camera on a mobile cart. Our seventh classroom is a computer classroom with 30 student workstations. The computer classroom has a three year 1/3 replacement schedule for workstations and annual budget for software. Replaced computers are recycled to the LRC computer lab and used by GA's and adjunct faculty. We perform maintenance, upgrade, and replacement costs on all the rooms except the computer classroom with ITAC funds.

PHD Office

We have four joint use student workstations in our Ph.D. office. These were purchased and maintained with ITAC funds.

Learning Resource Center

The LRC has a 22 workstation resource lab, a common area, and four small studios that serve our population of approximately 700 students. The LRC computer laboratory is managed as an open facility, not limited to social work students. We recycle replacement workstations from the computer classroom with an annual budget for software. We have four laptops, a digital camcorder, and a digital camera for checkout use to faculty and students from ITAC funds. The library collection, student workers, and additional AV equipment comes from LRC funds.

Staffing

The School has two full-time professional technical staff responsible for all network administration, Web resources, training, and technical support. In addition, students receive some support from GA's working in the LRC. ITAC partially funds one of the full-time professional technical staff positions.

Current and Proposed Funding Sources

Our annual ITAC allocation is our primary source of IT funds. Last year we received a formula allocation of \$58,543 and a one-time allocation of \$36,500. ITAC funds our network, computer lab, IT classrooms, Ph.D. office, and partially pays for one professional FTE to oversee the network and overall technology operations. In addition to ITAC, activity funds are drawn from tuition and used for one FTE support staff position, GA's. These positions provide support for curricula development, student projects, IT classrooms, and the LRC computer lab. Most of the equipment and software expenditures for our 30 workstation computer lab come from this activity fund. Other support funds come from School accounts. We also rely heavily on ITS and DIIA services and support.

• CENTRAL UNITS

Division of Instructional and Innovative Assessment

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

VISION/MISSION/GOALS

DIIA's vision is to provide instructional services that improve teaching to transform learning. DIIA's mission is to integrate pedagogy, instructional technology, and assessment to promote effective and innovative instructional and evaluation practices in support of the university's core purpose and values. As a central division, DIIA's collaborative programs and services are designed to support all colleges and schools and thus impact all students and faculty. All ongoing, new innovative proposed projects align with DIIA's mission.

IT ORGANIZATION

DIIA's IT organization supports infrastructure, core university services, and innovative faculty and student services. Committees that DIIA is involved with that suggest IT policies include the following:

- Faculty Council's Faculty IT Committee
- Tech Deans
- Presidential Strategic IT Committee
- Educational Policy Committee
- Student Deans Committee
- Administrative IT Leaders
- Copyright Clearance Center Committee
- ITS Training Committee
- ITS Apprenticeship Committee
- ITS Administrative Scripting Language Committee
- ITS Central Wiki/Blog Committee
- Blackboard Policy Committee
- UT System Serious Gaming Committee

INFRASTRUCTURE SUPPORTED BY ITAC FUNDS

DIIA works collaboratively with ITS to provide servers needed to support campus-wide IT systems provided by DIIA. In addition, DIIA maintains its own network: servers, hardware, software, computers, and lab equipment that support these programs and services. In 2007-2008, approximately **\$503,750** was spent to support DIIA's infrastructure.

- | | |
|--------------------------------|-----------|
| • Servers | \$4,800 |
| • Hardware | \$1,200 |
| • Software | \$3,400 |
| • Computers and monitors | \$17,000 |
| • Staff FTE | \$258,600 |
| • Graduate Research Assistants | \$122,900 |
| • Student Developers | \$95,850 |

IT PROGRAMS AND SERVICES SUPPORTED BY ITAC FUNDS

~FAST Tex

Administer and monitor faculty IT projects and employ 20-30 students annually. Twenty-three projects are in progress that will impact over 12,500 students.

Multimedia lab

Provide the only high-end production facility open to all UT Austin faculty and students for class projects. The lab is open 64 hours per week, staffed by a manager, technicians, and part-time proctors.

Digital Media Services

Prepare students to be 21st Century professionals by assisting faculty in incorporating digital media in their courses and by providing students with training, consulting, and access to high-quality digital media equipment, software, and facilities.

Courseware

Provide training, second-tier expert consulting, programming support and integration, and administration for Blackboard and other Web courseware tools.

Technical evaluation

Conduct exploration, development, and assessment of new and emerging technologies.

Database production and support

Develop and maintain systems that support student learning, such as the Blackboard building blocks and other in-house databases and systems.

Resource development

Create, develop, and support Web site resources, tutorials, lab guides, journal submissions, and conference presentations for students, graduate research assistants, and faculty.

Training

Conduct individual and class workshops as well as on-site and lab-based training sessions for faculty, graduate student instructors, and undergraduates

Ongoing Course Assessment system

Allow faculty to solicit anonymous, secure student feedback online throughout the semester.

eGradebook

Enable faculty to maintain course assignments with related grades and to calculate final grades in a secure online environment.

CIS/eCIS

Allow students at the end of each semester to give feedback to faculty about instructors' courses and teaching.

Digital Archive Services (DASE)

Support integration with DASE and Blackboard.

Gaming, Simulations, Virtual Worlds

Support the use of these emerging tools into the classroom.

Assessment

Conduct classroom assessments, program evaluation, and research on technology to support student learning.

Research

Provide expertise on instructional use of technology to forward the university's goals to focus on teaching and student learning outcomes.

CURRENT AND PROPOSED FUNDING SOURCES FOR IT PROGRAMS AND INFRASTRUCTURE

DIIA receives student testing fees and state-appropriated funds to support its charge to develop policy for technology-enhanced learning and to support DIIA's mission-critical operations: credit-by-exam testing and petitioning, management of student credit-by-exam tests, test administration, computer testing labs, classroom scanning services, administration of the course instructor survey, and online services for integrating student information.

DIIA relies on ITAC funding to support these key operations:

- provide students and faculty reliable instructional technology services
- enable direct access to online and multimedia technologies for learning and teaching
- support and compliment departments and colleges in their endeavors to promote innovation in instruction
- partner with colleges in research and development of instructional technologies
- collaborate with other campus entities in implementing technology grants

Graduate Studies

Overview of Current IT Programs and Infrastructure

Vision/Mission/Goals of Unit

Established in 1910, the Graduate School has grown to encompass nearly 100 fields of study, and the number of graduate students now exceeds 12,000. More than 800 doctoral degrees and 2,800 master's degrees are awarded each year. The Graduate School's fellowship program makes over 500 annual awards totaling approximately 10 million dollars. The University of Texas at Austin awards the second largest number of doctoral degrees in the United States and is one of three southwestern members of the Association of American Universities.

Our Mission:

The Graduate School at The University of Texas at Austin is an active community of diverse scholars in over 100 academic programs dedicated to excellence in original research, teaching, creative expression, and intellectual leadership. Using our extensive

resources and talents, we cultivate individuals who work together to bring knowledge, innovation, and best practices to meet the great and small challenges of our time.

The Graduate School operates under the direction of the Vice Provost and Graduate Dean, Victoria Rodriguez. Areas of responsibility include Administrative Services, Awards, External Relations, Faculty Development Program, Fellowships, Graduate Assembly and Legislation, Graduate and International Admissions, Portfolios, Recruitment and Outreach, Student Services, and Technology and Web Administration.

The Graduate School will be celebrating its 100th birthday in 2010. In recognition of this milestone, the goal for the capital campaign is \$100 million. As mentioned above, the focus of the capital campaign is graduate student support.

Over the next two years, we hope to have the Awards and Fellowship Application Tool and the Recruiting Portal fully operational. Once the major Graduate School processes are automated, they will be maintained and enhancements will continue to be made.

The Graduate School is also working with the Office of Information Management and Analysis to establish a new Institutional Research Analyst for Graduate School support. This position will identify data sources, design data structures, and perform statistical analyses of data as appropriate to support informed decision making by University officials. Specific areas of analysis include graduate student cohort tracking, retention, and time to degree; graduate degree program assessment; graduate student financial support, recruitment, and post-degree placement.

IT Organization

Currently we fund 2 FTE at the senior systems analyst level on the Student Information Systems "SIS" team. The SIS team leader, in consultation with Graduate School staff, establish priorities. As noted under the Best Practices section of this proposal, our partnership with SIS in developing systems for use by students and staff enables us to build upon programming and development across campus and reduce duplication of efforts.

Infrastructure

The Graduate School has 45 Apple desktop computers, 8 Apple laptop computers, 3 Dell PC desktop computers and 1 Dell laptop computer. There are 2 networked multifunction copiers, 4 networked monochrome printers (2 of these are used for mainframe printing), and 1 networked color printer for staff use. There is one in house Systems Administrator responsible for setting up computers, upgrading software and virus protections, and providing technical support to users. Software and operating systems are kept up-to-date.

There is also one Dell PowerEdge 800 server that serves as our office fileserver. Particulars about this device include:

- network security that is provided by the Windows built-in firewall and adjusted for best security practices by SIS staff
- access restricted to the Graduate School's computer subnet (128.83.84.xx)

- antivirus software that is updated at 4:00 a.m. daily via automatic downloads from an SIS-managed Symantec antivirus server
- backup power provided by a UPS (uninterruptable power supply) that allows for a clean shutdown in the event of a power outage, reducing the possibility of data corruption
- data backups conducted every weeknight and stored on hard drives that rotate between the server rack and a secure off-site storage location; this routine provides a backup of 4 – 6 weeks worth of data
- physical location in a server rack in MAI B-1 (Registrar’s office basement), protected by an alarm system that comes on automatically after the last staff member leaves in the evening and remains active until turned off manually the following morning by staff

Current and Proposed Funding Sources for IT Programs and Infrastructure

The Graduate School uses Available University Funds “AUF”, Option III program fees, funds from flat rate tuition, and ITAC funds to support its IT programs and infrastructure. AUF funds are primarily used for systems administrator and analyst salaries. Operating expenses primarily come from designated fee and flat rate tuition accounts.

Estimated costs and percentages devoted to the different aspects of IT are as follows:

New development	\$ 112,000	42%
Maintenance/Enhancement	72,000	27%
System Administration	43,500	17%
Web Design/Maintenance	21,500	8%
Equipment/Software/Supplies	<u>15,500</u>	<u>6%</u>
Total	\$ 264,500	100%

Harry Ransom Center

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission/Goals of Unit

The central mission of the Ransom Center is to advance the study of the arts and humanities. To this end, the Center:

- Acquires original cultural material for the purposes of scholarship, education, and delight
- Preserves and makes accessible these creations of our cultural heritage through the highest standards of cataloging, conservation, and collection management
- Supports research through public services, symposia, publications, and fellowships
- Provides education and enrichment for scholars, students, and the public at large through exhibitions, public performances, and lectures

IT Organization

The role of Technology and Digital Services is to provide superior technical support for all functions and services of the Ransom Center. This IT group works with the Ransom Center Administration to determine budgets and priorities. The Center's IT organization detail is included as an appendix to this proposal.

Infrastructure

- 2 IT equipped classrooms
- Laptops, projectors, and screens available for use in non-IT equipped classrooms
- 175 CPUs, 15 laptops, 3 servers, 10 networking switches.
- We adhere to the security guidelines set forth by the University's Information Security Office (ISO)

Current and proposed funding sources for IT programs and infrastructure

Current funding sources. Funding for most permanent Ransom Center IT staff salaries is from the Ransom Center regular budget. Partial funding for one full-time IT position is from our 2008-09 ITAC allocation of \$20,000. Funding for a half-time Technology Intern (graduate student) is from private gift funds. Funding for some of the part-time temporary student positions engaged in scanning activities is generated by the Photographic Revolving 19- account. Hardware, software and networking expenses are funded in part by the Ransom Center regular budget and in part by endowment income. Hardware and software specific to grant-funded projects is generally funded by the grant.

Proposed funding sources. In addition to the sources listed above, the Ransom Center hopes to generate some additional IT income through corporate sponsorships of programs and web pages; to secure endowment funding for the Technology Internship position; and to secure additional ITAC funding for classroom IT support and for digitization of collection materials in support of classroom instruction.

UT Libraries

Overview of Current IT Programs, Budget, and Infrastructure

The programs provided by the Libraries in support of students and faculty are best characterized as information services. The Libraries provides a broad array of electronic information services that directly support student learning. All of these services require ongoing resources from many different funding sources, as shown below.

University of Texas Libraries Vision, Mission, and Goals

Vision

The University of Texas Libraries is the preeminent public university library in the country, providing

- campus information resources (the raw materials of University research and learning) that sustain the intellectual environment required to be a preeminent research institution;
- an evolving technology environment with effective tools and services for the discovery and delivery of information to campus scholars and the citizenry alike;
- an inviting and comfortable space for individual or group study and learning, equipped with appropriate infrastructure;
- experts who teach the skills necessary to master information strategies appropriate to the classroom, laboratory, and lifelong learning;
- staff expertise that strengthens state and national collaborations focused on improving the preservation and dissemination of scholarship and creative works; and
- a talented and diverse staff that fully embraces University values.

Mission

The University of Texas Libraries collects, organizes, preserves, and provides access to recorded knowledge and human creativity in support of the teaching and research mission of the University.

Goals

ITAC funding has been critical to the Libraries success in achieving goals for the use of information technology in support of UT's mission. Those information technology related goals are:

- Ensure intellectual and physical access to all collections in campus libraries.
- Advance current information literacy program to develop user competencies in information seeking and critical inquiry, emphasizing point-of-need instruction in online environments as appropriate to various academic disciplines and departmental cultures.
- Develop and maintain a robust digital infrastructure capable of providing multi-channel access to our electronic information at the point-of-need, supported by adequate staff and resources.

- Implement a new suite of digital services that addresses evolving user behavior, improves users' access and control of their digital environments, leverages the Libraries investment in content and existing infrastructure, provides compatibility with campus systems and can adapt to new and evolving digital environments.

Current IT Programs

Commercial Web-based Resources

Our licensed electronic information includes approximately 490 online databases and 30,000 electronic journals. We subscribe to these resources remotely and our students access them over the web on the computers in our libraries and on their own computers through wired and wireless networks. Users off-campus use our proxy servers so that they can access these information resources in their apartments and homes—in truth, wherever they can connect to the web with their laptops—just as if they were in a library.

In addition, we serve, host, or link to many other electronic resources including electronic books, electronic theses and dissertations, music, art, data sets and several other resources. Indeed, one of our goals is to purchase information in electronic format in preference to paper and other traditional formats. It is necessary to have usable web pages, servers, networks, and other pieces of infrastructure so that students can best avail themselves of these resources. Spending millions of dollars on electronic resources but not providing adequate infrastructure to the UT community to use those resources would be a vast waste of resources. ITAC funds help support this effort for students.

Desktop Computer Hardware/Software

The UT Libraries provides over 1,000 networked devices in support of student research and instruction through its thirteen branches including several hundred which are directly used by students in the Electronic Classrooms and Reference areas in the Perry-Castañeda Library, the science libraries, and the Art, Architecture and Classics Libraries. These computers allow students to access the library owned and licensed electronic resources from within the library where they have access to the print collection and the reference staff. This is very valuable to the students since the librarians can help students evaluate the quality of information from an increasingly disparate set of materials.

Laptop Checkout

With a valid UT ID students may check out laptops from Perry-Castañeda Library and the Fine Arts Library. Although we no longer have funds for purchasing new computers in our laptop checkout program, we have temporarily been using older laptops which would otherwise be surplussed

Ethernet Connections

Ethernet laptop connections are available in the Perry-Castañeda Library and the Engineering Library.

Wireless Access

UTNet wireless access is available to students, faculty, and staff throughout the Chemistry Library, Classics Library, Engineering Library, Fine Arts Library, Physics Mathematics

Astronomy Library, Public Affairs Library and the Tarlton Law Library; and in selected areas of the Architecture and Planning Library, Collections Deposit Library, Fine Arts Library, Geology Library, Life Science Library, Perry-Castañeda Library, and the Harry Ransom Center.

Ask a Librarian

Online help is provided through the Libraries website and provides a virtual help desk for students doing research. “Ask a Librarian” not only provides a way for students to connect with librarians through email, chat, or telephone, but also offers an FAQ and a way to make an appointment with a subject specialist for more advanced, face-to-face research assistance.

Electronic Reserves

Our electronic reserves program provides students with materials faculty members place on reserve for their classes. Again, providing reserves electronically enables students to use the materials when and where they wish without having to wait in line, without having to check them out, and without having to return them in two hours or face fines. And, unlike traditional reserves, multiple students can use one resource simultaneously. The program handles rights management issues, interacts with Blackboard, and enables faculty to basically make their course materials available online over the web with its attendant benefits for students.

Training and Instruction

The Libraries provides 149 computers in seven training rooms for hands-on instruction in the use of online resources. Classes taught are most often offered in conjunction with students’ assignments in their academic classes. Online tutorials are available as well so that students can take advantage of instruction sessions at the time and place of need. And UT Libraries works with faculty and TAs to integrate learning modules and information resources (including electronic reserves) into Blackboard portals for classes, securely password protected for members of the class.

3. Infrastructure

It is essential that we deploy an infrastructure that is appropriate to the needs of our students and faculty. We support thousands of faculty members and students and have built a world class digital library facility to meet this demand. As previously noted, while we license access to millions of dollars of commercial, web-based resources, it is essential that we provide the computers, networks, and attendant software in order to bring that information to our students and faculty wherever they may be. This requires trained staff, equipment, and software.

As information continues to be produced only in electronic formats, it is even more important for the University to provide resources that will help us hire the staff we need who can then continue to buy, build and maintain the equipment and software that will enable the access our University requires.

Production and Development Servers

- 20 (194 virtual) Sun Microsystems CPUs running Solaris w/ 224 GB of memory
- Apache web server
- EZ Proxy server (for remote access to licensed resources; EID required)
- MySQL DB server

- Z39.50 DB server
- Nutch indexing and search server
- pmWiki server (hosting various wikis)
- WordpressMU (for hosting various blogs)
- Helix streaming media server (for audio and video delivered over the web)
- Sun One application server
- SFX open url server
- Metalib federated search server
- DSpace Institutional Repository
- 12 Windows servers for application hosting

Production and Development Library Management Servers

- 16 Sun CPUs running Solaris w/ 64 GB of memory
- 2 TB of online storage

Network Attached Storage

- 75 Terabytes of online storage; backed up, secure, highly available

Tape Backup/Archiving Library

- Backup system located in main campus data center, 75 Terabyte capacity
- This system enables us to move very large files to tape for long-term archival preservation
- Tapes are tested and the content migrated to new tape at regular intervals
- Independent of proprietary software

Digitization Center

We produce digital image/text/audio/video from original files. We scan rare and fragile materials (such as the Gutenberg Bible).

- I2S DigiBook overhead scanner for bound books and flat items
- Epson 1640XL/10000XL large format flatbed scanners
- Xerox DigiPath high-speed document scanner
- Nikon CoolScan 4000/5000/9000 slide/transparencies scanners
- DocWorks/METAe software for encoding electronic texts

Current and Proposed Funding Sources for IT Programs and Infrastructure

Primary sources of funding for library information technology initiatives are the UT Libraries budget, UT System funds (LERR and UT System Digital Library programs), and other funds (grants, contracts, and other miscellaneous funds). The UT Libraries regular budgets and various revolving funds (including library fines, lost book charges, and printer revenue) fund electronic information resources.

Virtually all equipment (desktop, servers, and connectivity) is funded by one-time capital funds that are requested annually. The Libraries are in the process of building a sustainable funding mechanism to provide consistent life cycle funding for information technology infrastructure, at least at the desktop level. There is no sustainable budget for replacement of servers and other high-cost equipment and networking. Following is a summary of local expenditures in support of Libraries IT infrastructure (excluding the millions of dollars the Libraries pays for the electronic information itself).

Budgeted Funding for Digital Initiatives, 2008-2009

<i>Funding Sources</i>	<i>Salaries</i>	<i>Fringe</i>	<i>MO&E</i>	<i>Total</i>
<i>UT Libraries Budget</i>	\$2,086,903.60		\$503,332.25	\$2,590,235.85
<i>ITAC Funds</i>			\$106,806.00	\$106,806.00
<i>UT System Funds</i>			\$300,000.00	\$300,000.00
<i>TDL Funds</i>	\$342,340.00	\$91,334.00	\$250,000.00	\$683,674.00
<i>Total</i>				\$3,680,715.85