

THE UNIVERSITY OF TEXAS AT AUSTIN
INFORMATION TECHNOLOGY ADVISORY COMMITTEE
2008-2009
SCHOOL/COLLEGE/ADMINISTRATIVE UNIT VISION PLAN

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission/Goals of Unit

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**

School of Architecture

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 mission 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, 2 color laser printers, and 2 black and white laser printers.

Digital Fabrication

The School currently hosts four major pieces of technology for digital fabrication: a 3D printer that produces plastic models from digital input, two 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 4” thick using a digital control system, and a 3D non-contact laser scanner that can produce three-dimensional digital models by scanning physical objects.

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.

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 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.

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, BevoBucks and print charging administration, and computer support.

Webmaster

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

Current and Proposed Funding Sources

ITAC

ITAC is the primary budget used to provide student computing resources. Our current ITAC budget is \$127,586; this is approximately 21% of our total IT budget. Increased special project funding through ITAC has historically been an important method of funding for major technology initiatives and projects.

SOA Instructional Technology Fee (flat rate allocation)

This allocation is currently \$120,000, 52% of which is currently dedicated to IT staff salaries. The remainder is used as a supplement to fill the gap between funding resources and funding needs for recurring expenses and projects.

SOA Special Equipment Fund

A portion of the School of Architecture's annual operating budget is the Special Equipment Account. The annual Special Equipment budget is approximately \$102,000. This account is the primary source of money for faculty and staff computing; it is also used to support our visual resources and shop facilities, and to fund technology programs and projects.

CLC & FCI Funds

The School now opts to receive CLC & FCI funding directly into an account. This funding source is very helpful in freeing up Special Equipment Account money for other projects and programs that are of direct benefit to students.

SOA MO&E

Currently, \$122,229 (66%) of our IT salaries come from the School's MO&E budget; this represents a very significant investment by the School in Information Technology.

SOA IT Revolving Account

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 the consumables used in the operation of the Computer Lab and IO Central. Activity on this account is a good metric of the volume of services provided to our students; even with our minimal cost-recovery pricing, we expect that this year's revenue will be around \$80,000, almost 15% of our operating budget.

Differential Tuition

The School continues to pursue increased funding through increasing our differential tuition. Only a portion of last year's requested increase was granted, and increased funding for information technology is high on next year's list of anticipated recipients of increases from this source.

School of Business

This vision plan establishes the strategic goals for information technology improvements for the McCombs School of Business for Academic Year 2008/2009 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.
- **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.

Current and Proposed Funding Sources for IT Programs and Infrastructure:

Constantly changing technologies as well as needs for course development have required continuous changes to our funding methods and sources. While we have made continuous adjustments to our vision plans and priorities, we have remained focused on the McCombs School of Business goal of constantly providing appropriate business-oriented technology for our community.

We have funded our expenditures with information technology and course fees, allocations from the Information Technology Advisory Committee (ITAC), and

when necessary, from loans from UT System. We are continually looking for ways to modify systems, funding and practices so that we will be able to meet the needs of our technology evolution.

2006-2007 Computer Services Department Income Sources (EST)

Department Budget	\$2,876,000
ITAC Funding (allocation and carryover)	\$643,000
State Funds (Provost Office)	\$170,000
Total:	\$3,689,000

Staffing:

Area	FTE
Executive Management and Strategic Planning	3.00
Administrative Support	3.00
Administrative Computing Support	10.00
Computer Lab Operations	6.00
Enterprise Server & Network Operations	6.00
Technical Support	6.00
Network/Computer Security	1.00
Training	3.00
Web Design and Publishing	3.00

The student employees on staff include 41 students that serve as computer lab proctors. Additionally, there are 9 students working in the SWAT (Students With Advanced Technology) shop, where they help support the hardware and software on the 1000+ student notebooks in use throughout the school.

College of 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 and 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. 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 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. Many 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. Communication Sciences and Disorders and Journalism each employ technical support staff to maintain their clinical and broadcast television equipment, respectively. 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 Technology Classrooms Committee.

Technology Funding

For FY2007-08, the College of Communication received \$448,726 from the University-wide Information Technology Advisory Committee fund. We also generate \$1,488,935 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 \$833,444 Communication Learning Equipment Fee (CLEF). This allocation was greatly impacted by the 2% budget cut imposed upon the College this year, as it formerly totaled almost \$1 million.

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.

College of 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 has worked to fulfill this mission by utilizing technology to facilitate instruction, collaboration, and inquiry in all its undergraduate and graduate programs. The College's commitment to this mission is demonstrated by its educational environment enriched with high-speed data networks, numerous technology facilities, and the training and support necessary to make the best use of these tools. In recent years, the College has carried this commitment further, working towards making technology available anytime, anywhere in a distributed technology environment that encourages collaboration and innovation.

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 that include all 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 Programs

Laptop Initiative for Future Educators (LIFE)

The Laptop Initiative for Future Educators (LIFE), now in its sixth year, is a groundbreaking initiative that requires all teacher education students entering the professional development sequence to acquire a prescribed laptop computer and software. The program is designed to immerse preservice teachers in a technology-rich learning environment of ubiquitous access to technology tools, Internet-based resources, and online communication systems in both their coursework and field experiences. Faculty and clinical supervisors are also equipped with the same equipment and software and are given curriculum development support.

This complex program requires considerable recurring funds for the salaries, equipment, and resources necessary to effectively carry out its operations. Extensive training is provided to faculty and students. Students may check out a wide array of peripheral technology equipment to prepare multimedia assignments created with their laptops, as well as loaners when their laptops must be sent for repair. The Laptop Help team provides walk-in technical support for students, covering both hardware and software issues. A coordinator manages this extensive range of efforts and resources, and provides information to other higher education institutions interested in developing their own laptop programs.

Several Vision Plan projects in recent years have addressed LIFE-related needs. Technology kits, equipped with projectors, digital cameras, and camcorders, have been provided to apprentice teacher cohorts for use in their field experience schools, and collaborative workspaces have been created in the Sánchez Building where LIFE students can use and recharge their laptops. Funding has also been used to replace aging loaner laptops.

Learning Technology Center

The Learning Technology Center (LTC) supports the College of Education's instructional and research activities by providing computer, digital media, and telecommunications facilities, equipment, and services. Through the work of the LTC staff, many new technologies have been made available in the College in recent years. The LTC developed and maintains the College's wired and wireless computer networks, the server system, and a conferencing/email system. Several large-scale technology facilities have been designed and constructed to serve faculty and students in five

buildings, including a Student Collaboration Area, Distance Learning Classroom, and Model Technology Classroom. The center also provides nine other computer lab facilities, with both Mac and PC platforms. These include an Assistive Technology Lab with specialized hardware and software to teach students about adaptive equipment for people with disabilities, and a Laptop Compatible Classroom where students can plug in power to their own laptops during classes. LTC staff have also developed important technology services for the College, including an automated backup service for faculty and staff computers and an ePortfolio system. The LTC checks out peripheral equipment, such as digital camcorders, to students free of charge, and delivers equipment, such as mobile laptop labs, to College classrooms. (See “Infrastructure” section below for more details.)

The LTC’s IDEA Studio assists College of Education faculty with the integration of technology into their curricula. (See IDEA Studio description in the Best Practices section for more information.) The Technical & Network Services team provides desktop technical help for College faculty and staff. The LTC also employs a Communications Coordinator who promotes the use of the LTC through electronic and print content, and a Web Designer who manages the College and LTC Web sites and assists departments and centers with their sites. And through the leadership of its Director, Dr. Paul E. Resta, the LTC has been involved in a number of research projects and collaborative initiatives that advance the use of technology to meet the needs of teachers and students throughout the state and nation.

These wide-ranging, high-quality resources and services require a large and skilled staff. The LTC employs 20 regular full- and part-time employees and 35 hourly part-time employees. Its IT-related funding consists of ITAC allocations (LTC personnel handle all ITAC-related purchases, and the resources purchased for many ITAC projects are housed and managed in the LTC), and a percentage of the flat rate tuition that all College of Education students pay each semester. (See “Funding Sources” section below for more details.) In addition to this college-wide program, some of the College’s academic departments have IT personnel, for the most part concentrated on maintaining departmental Web sites and setting up departmental computers.

Infrastructure

In the last two years, the College of Education has equipped 31 of its classrooms with projection systems, each consisting of a ceiling-mounted projector, a large, motorized screen, and touchscreen control system on a small console with cables for connection to a user-supplied laptop computer. Laptops are available for delivery if needed. Document cameras can also be connected to the system. The College has also completed the renovation of 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 screen projection, video cameras and microphones, technician-operated, providing interactive audio and video links via IP Codec, UT network, telephone, or webcast.
- Advanced Applications Lab, SZB 324: 40 Apple iBooks, wireless network, instructor console, dual rear screen projection.
- 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 with DVD burners, 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 with DVD burners, 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 laptops wirelessly, collaborate, study, and charge laptop batteries.
- Open Lab, SZB 536: 8 Dell Pentium 4s, 4 iMacs, and 10 laptop-use stations with power and wireless network. Always “open” for walk-in use.
- Laptop Compatible Classroom, SZB 518C: Wireless network and power for student-supplied laptops, 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 carts: 2 available in SZB, 1 available in BEL with MacBook with PowerPoint, wireless network connection, projector, and speakers.
- Mobile Laptop Class Cart: Cart equipped with 25 MacBooks for dual platform use with wireless network connection.

Video editing facilities include:

- 3 Digital Video Editing Bays in SZB 537: 1 with a Mac Pro, 2 with Power Mac G5s, with iMovie or Final Cut Pro; 2 have DVD Recorders.
- Stereo Audio Mixing Room in SZB 537: Power Mac G5, microphone, tape, and CD inputs with audio mixer.

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
- iSight Cameras
- Image Scanners
- Conference Phones

The Learning Technology Center's Technical & Network Services team maintains the College's computer data networks and servers and works hard to continually update these systems. Pertinent data on these systems include:

- Switched data network with 100% full duplexed 100 Mbps Ethernet connectivity. 1580 active network nodes spanning 5 buildings.
- 46 wireless access points provide wireless networking in 4 buildings.
- TeachNet, the COE e-mail and conferencing, and chat system averages 3,520 logins per day.
- The College has 33 servers, running Mac, Windows, and Unix systems.
- The College's Web server averages 88,700 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)
- 19-2638-22—Learning Resource Center Usage Tuition
- 14-7482-80—Deans Research and Support Account, which supports the Vision Award program. (See Vision Awards, Best Practices Section) Also covers the purchase of certain LIFE program software applications.
- 30-2101-27—UT Libraries UTOPIA Grant, which also supports the Vision Award program.

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

It is important to note that Engineering has always remained true to the original intent of the Vision Plan funding and has annually strived to identify innovative projects that will advance IT use to support student learning. Engineering has never committed any Vision Plan funding to routine recurring operational overhead. Quite to the contrary, Engineering has typically required at least 100% matching for Vision Plan projects thus nominally at least doubling the impact/benefit of Vision Plan funding allocated to Engineering.

It is quite surprising and disappointing for Engineering to hear that the original intent of this funding needs to be explicitly reemphasized in a separate sub-category. Please consider the entirety of the Engineering Vision Plan to be in the original spirit of the intentions of the Vision Plan allocations.

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

Engineering's heritage of Learning Resource Centers, Studio Classrooms, laptop/tablet mobility carts, robust server infrastructure, Faculty Innovation Center, deployment of Multimedia Teaching Podiums (60+ classrooms), pervasive wireless infrastructure (150+ access points in 5 buildings) and Laptops for Learning Initiative (now entering its 12th 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 sources of funding available to the Cockrell Scholl of Engineering to support the IT infrastructure and activities are through student fees. Currently we are in the midst of a transformation from a collection of fees (Instructional Resources fee, Instructional Technology fee, Information Technology fee, and Graduate LRC fee) toward a flat-rate tuition fee. 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.

College of Fine Arts

Overview -

Mission

Originally formed in 1995 to address the growing needs of the College, the Information Technology division works to enhance instruction, research and administration in the College of Fine Arts.

. . . Leveraging existing resources

While we continue to add to the technology inventory in Fine Arts, many of those additions are general-purpose instructional technology to existing classrooms – finishing the build-out of basic technology for teaching. Although there are still requests for specialized equipment and software we intend to satisfy, students are increasingly equipped with their own technology; laptop computers, iPods and other mobile devices that can be leveraged in instructional efforts. Even the most basic laptops are very capable now, and the addition of relatively modest software can provide many of the same capabilities that were previously deployed in specialized labs. Sound and Video editing are great examples of this new capability, with many personal machines already equipped for sophisticated media production without adding anything at all. Likewise, third-party offerings of web-based software extend the capabilities of many computers in compelling ways. With this in mind, it seems reasonable to begin shifting our efforts from the supply of specialized hardware and software to improving basic infrastructure like classroom presentation technology, wireless connectivity, and comfortable and functional places for students to work with their mobile devices on campus.

Important cooperative efforts

Much of the existing inventory of instructional technology is underutilized. Besides the desire for more electrical outlets in student areas (with which to power all their computers, cell phones and iPods), better faculty use of classroom and online technology is a common student refrain. With the sometimes-frantic pace of deployment over the last few years, encouraging use of new services along with instruction on how best to use them have not been given adequate attention. Therefore, Fine Arts, along with Liberal Arts, the Division of Instructional Innovation and Assessment (DIIA) and others, will forward a separate joint proposal this year to expand a successful summer technology program that provides help to faculty who wish to improve their use of instructional technology.

A number of colleges and schools, including Fine Arts, are participating in another joint proposal to promote the instructional use of podcasting on campus. Recent improvements in software and the extensive campus classroom technology infrastructure make it especially practical to deploy this service more widely.

Finally, the “Digital Archive Service”, a joint project between Liberal Arts and Fine Arts, will be the subject of a joint proposal. In use since 2005, and with ITAC support for the last four years, we continue expanding the project to include more collections and have begun moving some of the source digital assets to General Libraries’ servers.

Summary of Requests

The College of Fine Arts requests \$244,000 for a variety of projects this year. A summary of the projects is provided in the table below:

Technology Classroom Upgrades	Fine Arts	\$40,000
Digital Photography Classroom Laboratory	Art & Art History	\$44,000
MBE Recording Control Room/Lab	School of Music	\$58,400
Recording Technology Classroom	School of Music	\$70,600
New Technology Classrooms, WIN 2.116, 1.120	Theatre & Dance	\$11,000
Theatre & Dance Microcomputer Laboratory (TADL) Technology Refresh	Theatre & Dance	\$20,000

Overview of Current IT Programs and Infrastructure

The College of Fine Arts, one of 17 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, 221 faculty and 204 classified and professional staff, it qualifies 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

1962 students (fall, 2006)
221 Tenure-track Faculty
204 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 – 10 FTE, 13 part-time (includes T&D)
Art – 2 FTE, 13 part-time
Music – 3 FTE, 10 part-time

Programs

Recurrent ITAC funding is used primarily to support the routine operation of the major student computer laboratories in the three academic units. 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

- Richard T. and Jan J. Roberts Reading Room (located in the Fine Arts Library)
- 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)
- Specialty Laboratories
 - Electronic Music Studios (EMS, located in MRH)
 - Piano Keyboard Labs (2 in number, located in MRH)
 - 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)
- 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
- WIN 2.112, B202, 1.134, 1.148, 2.136

Other Facilities

- Teleconference Suite (MRH 2.636)
- Fine Arts Recording Studio (MRH 2.638)

Funding for IT programs and infrastructure

Annual funding for Information Technology is expected to increase by a little over 1% this year, from \$1,157,438 in FY 2006-07 to \$1,174,958 in FY 2007-08 (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		2006-07 Actual	2007-08 Budget	% Change
Fine Arts Instructional Tech	19-3490-41	\$ 501,204	\$ 514,240	2.60%
ITAC (Recurrent)	19-9708-00 **	\$ 114,760	\$ 115,583	0.72%
ITAC (One Time Project)	19-9708-00	\$ 162,861	\$ 159,009	-2.37%
ITAC Digital Image Lib * see note below		\$ 30,000	\$ 29,290	-2.37%
State Appropriation	20-3480-10	\$ 215,183	\$ 219,488	2.00%
User Fees (Recording)	19-3490-18	\$ 27,405	\$ 27,000	-1.48%
Other Local (Design)	19-3490-39	\$ 67,729	\$ 68,948	1.80%
Other Local (Equip-Newcomb)	19-3490-48	\$ 38,296	\$ 41,400	8.11%
Totals		\$ 1,157,438	\$ 1,174,958	1.51%

Jackson School of Geosciences

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission/Goals of the Jackson School of Geosciences

The Jackson School's goal is 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 and state-of-the-art teaching laboratories that match the quality of our curriculum and allow us to expand that curriculum into new frontier areas. We intend to systematically renovate and upgrade our classrooms and teaching laboratories. Although we were once on the leading edge – having the first technology auditorium and the first technology teaching laboratory in the university – we have not been able to keep pace with the need for constant upgrading of equipment or been able to implement new innovative teaching technologies.

Department of Geological Sciences, located in the Geology building, is the sole department within the school. It serves our own undergraduate and graduate students as well as approximately 1,500 non-major undergraduates who take our diverse earth science courses as electives each year. Our undergraduate enrollment has expanded by 53% from 177 to 271 majors since we became a separate college in the Fall of 2005 and our graduate enrollment is one of the largest in the country at 157 students.

Integral to our instructional activities are the 19 technology classrooms and labs in the Geology building. Six are general purpose rooms while the rest are specific to our academic unit (see table at the end of this document). Keeping the equipment up to date and in good working order and providing adequate security for the rooms are top priorities for us.

Geoscience investigations are unique in their broad use of both visual and analytical methods. We use specialized software in many of our courses to teach students specific skills, to display complex three-dimensional images and demonstrate analytical and interpretation techniques, and to help prepare students for professional careers in which they can expect to use these same software products. Technological advances have created innovative digital approaches to teaching highly visual material which we wish to incorporate into our curriculum.

IT Programs Requiring Recurring Funds

Geoscience IT infrastructure and other programs that require recurring funds fall into two categories: support staff salaries and maintenance of equipment. The Department currently has approximately 2.0 FTE of classified staff positions to maintain the servers, network, instructional equipment, desktop computers, student computer labs, and course websites as well as provide end-user support. One FTE is a full time person whereas the other is divided between several individuals with other responsibilities, primarily helping students with the use of software and trouble shooting technical problems associated with class work or thesis research. With around 500 fixed and mobile users (faculty, students,

and staff), our ability to provide end-user support is stretched unacceptably thin. For the last year we have contracted with ITS to get a part-time person so that we can try to cover immediate, short-term needs. Our request for salary for an end-user support person (1.0 FTE) is a high priority for our ITAC proposal this year.

Continued maintenance of our technology classrooms is critical to our ability to serve our growing student population. Life-cycle replacement of equipment, standardization of equipment, and expansion of some rooms are important recurring IT expenses.

IT Infrastructure

We maintain twelve servers that host web, more than 500GB of data, and shared software and licenses. They are attached to a tape backup system. During Spring of 2007 with our '06-07 ITAC allocation, we upgraded our servers so that we could do a first level backup with a set of dedicated hard drives and initiated the use of a virtual server. We have a Cisco 6500 router and eight 48-port switches in the old wing that can handle either T10 or T100 bandwidths. There are a similar number of switches in the new wing. All switches in the old and new wings connect to the router with fiber. We do not have a departmental firewall. Individual desktop computers have security software.

Our program-specific technology classrooms and labs are now 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.

The Geology building is nearly completely covered by the UTNet wireless network with denser coverage in the larger classrooms. Expansion of wireless coverage was accomplished in Fall 2006 with the help of the College of Natural Sciences.

We have a teaching classroom with 21 desktop PCs networked to a server and a printer. This classroom, one of the first technology classrooms to be built on campus, is in heavy use during the long semesters because students can obtain hands-on experience in creating and running a variety of computer models.

The Department maintains an undergraduate computer lab with 12 computers and two printers. We have a graduate computer lab with 20 computers, a large-format color plotter, and two printers.

All faculty, research staff, administrative staff, and most graduate students have personal computers which are attached to the building's network. Most printers are networked, although classroom printers are reserved for classroom, not administrative or research, use.

Our Digital Morphology Visualization lab became operational in Spring of 2006. The lab contains 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. College of Natural Sciences (CNS) ITAC funding from '05-06 was used to help build this exciting new instructional lab. Products generated through teaching and research in the lab are used as lecture components in many of our non-major undergraduate courses.

Current and Proposed Funding Sources

Maintenance and expansion of our IT infrastructure is funded by the Undergraduate Instructional Equipment fund, our ITAC allocation, and unrestricted Jackson School funds provided to the Department.

School of Information

Current IT Programs and Infrastructure

Vision/Mission/Goals

The School of Information seeks to engage those best and brightest people who thrive on challenges such as exploring and understanding the extraordinary complexity of information and to discover principles and processes that will manage its immense volume and tap its promise for enhancing our lives. The School of Information aims to making a difference in the lives of citizens by shaping information realities that are accessible, useful, usable and sustainable.

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

- Discovering new and vital knowledge about information through research;
- Educating the next generation of information researchers, scholars and practitioners;
- Fostering leaders at the top echelons of national and local information organizations and agencies;
- Facilitating information literacy among the UT student community;
- Providing continuing education and expert advice on information issues through collaborative relationships.

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. A number of digitization courses meet in this lab, and students enrolled in those courses have access to the lab through a swipe-card lock during regular library hours.

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

With the acquisition of a VMWare virtualization infrastructure (partly funded by previous ITAC allocations), 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 archiving. Moreover, virtualization has allowed us to quickly and easily deploy course-specific servers without having to acquire new hardware. INF 312, an online undergraduate course with roughly 200 students per semester, operates on a virtual server (cyberspace.ischool.utexas.edu) that provides web publishing space for students, a course management tool for instructors, as well as secure chat functionality for virtual office hours and discussion rooms during live webcasts.

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 90% of the networking equipment within our local network at Sánchez supports gigabit speeds as well, with the rest providing 10/100 megabit connections. Network connections at the Collection Deposits Library and the Flawn Academic Center 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, and the remaining portion of a three year IMLS Digitization grant, which ends this year. The School of Information has received initial agreement for a tuition increase, and while the exact increase amount

depends on several factors, it is possible that the resulting increase in funding could go into effect in Fall 2008.

School of Law

OVERVIEW OF CURRENT 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 Programs

All Law School IT programs requiring recurring funds for salaries, operations, etc. are described in the section on Infrastructure, below.

Infrastructure

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 Department is divided into four areas:

1. Web & Database Services— web services and database services
2. Media Services—audio visual services
3. Educational Technology Services—instructional support for faculty
4. Computer Services—networking, file-sharing, and desktop services

Student access to computing resources—Computer Learning Center

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. The desktop operating system is Windows XP Professional and the applications package is Windows Office 2003. In Summer 2007, the CLC workstations were upgraded to Office 2007. Summer 2008 all workstations will be upgraded to new units and Vista.
- Server virtualized in 2007 - stores images for the lab and classroom desktops, 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.
- 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. Student Organization computers now managed by LabMan through ITS Contract.
- 10 Dell Latitude D600 laptops are available for 24-hour loan periods to law students. Five Cisco Aironet wireless cards are also available for student checkout. The Law Library supplies additional laptop accessories, including extended-life laptop batteries and AC adapters, to law students.

- 54 public Ethernet ports are available for student use throughout the law school. Wireless Ethernet coverage is available throughout the Law School.
- The 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 receive one copy of Microsoft Office media for PC and Mac to install on their personal computers
- During Summer 2007, the Law Library will replace approximately 60% of its study tables with new tables equipped with electrical outlets for laptop use.

Local online resources—Web & Database Services

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.

Computing infrastructure—Computer Services

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, 11 legal clinics, and 40 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)

Instructional support—Media Services and Educational Technology Services

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 are now available in every classroom. This allows the Media Services department to centrally manage and monitor all classroom multimedia equipment using the Crestron software. Except 3.302 and Goodwin which only have a projector but no speakers or Quick Media.
- 5 large classrooms 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)
- In the Summer of 2007, two medium-sized classrooms (2.123, 2.124) had powered ergonomic student desktops installed with electrical outlets now available to all students.
- An additional 11 rooms also 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, a classroom and courtroom facility
- Video conferencing capabilities are available in three rooms within the law school using a Tandberg codec purchased in 2005. One of the rooms is specifically designed for distance learning and has microphones installed on the desks for up to 22 students. The 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, but a larger, portable unit is being considered for use in classrooms. The video conferencing systems are used regularly for everything from student interviews to bringing in guest speakers for conference events.
- A mobile video conferencing system is being purchased Fall 2007 to meet demand for guest lecturers, interviews and events. The need is 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, the Jeffers cameras , robotics and switcher are in need of replacement. Both rooms have wireless and Ethernet drops, but all other technology must be carried in. A portable 3M wall display was added in both Courtrooms for the trial advocacy program.

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, VCR's, a digital still camera, and other audio visual equipment are available for student organizations to checkout

Access to information resources—Law Library and CLC

- 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 & Proposed Funding Sources for Programs & Infrastructure

Information Technology Fee: \$200 per student per semester. This fee provides just over \$500,000 per year for the Law School and is allocated almost 100% to salaries.

Computer Learning Center Services and Automation Fee: \$130 per student per semester (\$30 per summer session), generating approximately \$400,000 annually. This fee account supports the CLC and pays for subscriptions to various on-line databases. Recently, it also has been used to provide resources to students outside the CLC. For example, in FY 2005 and FY 2006, this account paid for two Canon printer/copier/scanners for student organization/journal use, completion of the wireless Ethernet installation, equipping Library tables with electrical outlets, and the annual warranty for the main router.

ITAC Funding:

2006-07:

Recurring: \$75,408.

One-time Projects: \$120,638

2007-08:

Recurring: \$78,014

One-time Projects: \$117,784

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. This includes coverage for 4 (out of 5) salaries for Computer Information Center staff.

College of Liberal Arts

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission/Goals of Unit

The College of Liberal Arts is committed to providing the highest quality technology-enhanced facilities and curricular materials to our more than 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, Liberal Arts Instructional Technology Services (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. After nine years, this effort has enriched the educational experience of every student at the University.

Our goals for 2008-2009 are shaped by a commitment to continue innovation and expansion of instructional technology resources, in spite of the funding challenges currently faced by the University. We will innovate by exploiting latent strengths and resources, especially building on our faculty's established track record with integrating research and teaching technology. We will also place a high priority on bringing our technology infrastructure up-to-date so that teachers have the appropriate methods to engage our ever more sophisticated students. Strategic priorities are:

- Provide tools and facilities to support undergraduate research as part of the instructional experience
- Multiply the impact of ITAC dollars by aggressively seeking outside grants for ITAC-supported projects
- Stretch limited funding by increasing efficiency and productivity
- Increase the involvement and employment of both graduate and undergraduate students in technology development and support
- Complete the installation of consoles in all appropriate classrooms
- Upgrade the oldest computers in student labs
- Improve and broaden technology support for faculty

Addressing these priorities will move us toward our ultimate goals of providing a fully-developed and vertically-integrated system of instructional software, technology-enhanced classrooms, computer labs, server and network infrastructure, and — especially — the highest quality professional support for faculty.

IT Programs

Course Development

Network-delivered, multimedia-enhanced curricular materials enrich the learning process by:

- *Engaging students in subject matter by providing more interesting, compelling, and interactive material*
- *Increasing cognitive integration of subject matter through multiple content modes — such as text, audio, video, and graphics — and increasing interaction with materials*
- *Increasing the quantity and variety of subject material readily available to students*
- *Easing access to timely, relevant, and customized scholarly materials*

LAITS encourages and sustains technology-enhanced course development through five basic programs:

- Faculty Course Development Grants
- Strategic Development Projects
- Student Technology Assistants
- Faculty Instructional Technology Workshops
- Multimedia Production Services

Faculty Course Development Grants

Faculty Course Development Grants are a prime stimulus for instructional innovation. These grants provide a wide range of funding and services custom-designed to help faculty members enhance their teaching with technology. Over \$2.9 million has been awarded through 174 Faculty Course Development Grants since 2002. *(See Appendix D for a full list of grants from 2002-2008 and see selected projects online at <<http://www.laits.utexas.edu/its/courses.html>>).* Grant recipients range from the technically savvy to the technically naïve. Faculty members are provided with the skills and resources they need to develop course materials, either on their own or in collaboration with professional developers. Funds can be used to support student assistants, and to purchase computers, software, and specialized equipment. Summer salary for faculty is also available to ensure that course development can proceed without interfering with instruction.

Faculty Course Development Grants are allocated through an annual competition. A Call for Proposals early in the Spring semester solicits faculty members to propose projects of exceptional value to students *(see Appendix C for the 2007-2008 call for proposals)*. Department Chairs are required to rank the proposals of faculty members in their department and provide a statement of both departmental teaching goals and instructional technology vision. A committee of Liberal Arts students, faculty, and staff reviews each proposal. Faculty committee members are selected based on their dedication to instruction and to technology-oriented course development *(Appendix E contains a list of committee members)*.

Faculty committee members are all experienced developers with an impressive array of awards to their credit, thus allowing review to go far beyond a simple thumbs-up or down. The potential of each proposal is thoroughly discussed during committee meetings. Many projects are funded conditionally, awarded small start-up grants, required to submit to special periodic review, or invited to revise and resubmit during the following funding cycle. The committee makes suggestions on how to improve projects and encourages applicants to seek training or advice from LAITS before resubmitting.

The review committee's funding criteria evolve in response to new challenges, opportunities, and leadership priorities. Undergraduate research is a priority for both President Powers and the Dean of Liberal Arts, and LAITS believes that conducting research is perhaps the most effective way for students to become personally engaged in subject matter. Accordingly, we have begun encouraging technology projects that make faculty research tools and data accessible to undergraduates enrolled in Liberal Arts courses. Current projects include:

- Sahotra Sarkar, Department of Philosophy: ResNet and ConsNet, interactive software for simulating and assessing biodiversity and conservation models (*see* <<http://consnet.org/>>)
- Jason Baldrige, Department of Linguistics: Open CCG Grammar Writing GUI, a collection of natural language processing components and tools which provide support for parsing and realization with Combinatory Categorical Grammar (CCG)
- Katrin Erk, Department of Linguistics: Shalmanseser GUI, a semantics experimentation system that analyses texts in German and English (*see* <<http://www.coli.uni-saarland.de/projects/salsa/shal/>>)
- David Schnyer, Department of Psychology: *Neuro-imaging* Teaching Laboratory, an interactive environment for training undergraduates and undergraduates in the analysis of functional magnetic resonance imaging (fMRI) data

Faculty Course Development Grant recipients are required to submit annual reports with financial accounting, an explanation of the progress they have made, and an assessment of results. In addition, a public review forum — *LAITS Third Fridays* — requires faculty grant recipients to present projects for public comment and discussion by faculty and staff from around the University (*see Appendix F for a list of past and future Third Friday presentations*).

From proposal to finished product, LAITS and the IT Grant Review Committee make every effort to council and support faculty members engaged in technology projects. Results have been satisfying, with the number of Liberal Arts winners at recent Division of Instructional Innovation and Assessment IITAP awards growing each year (*see Appendix G for a list of award-winning Liberal Arts faculty and projects*).

Strategic Development Projects

Many strategic opportunities for exploiting technology require efforts beyond the scope of individual faculty members. LAITS address these opportunities with Strategic Development Projects focusing resources on:

Large service courses taught by multiple instructors and taken by students across the University

Department or College-wide instructional support applications

Projects requiring long-term commitment of resources

Inter-college collaborations and partnerships

Strategic Development Projects are selected to ensure the biggest bang-for-the-buck — the greatest impact on the greatest number of students — for the resources invested.

Whenever possible, these large-scale ITAC-funded projects are made freely available to both students and the public at large. Content for Strategic Development Projects is produced entirely by College faculty, students, and staff, and copyrights are cleared for perpetual and unlimited use by The University of Texas at Austin. Thousands of users visit these sites each day, reinforcing our image as a flagship university of international stature and a public institution providing valued services to the people of Texas.

The premiere example of a successful Strategic Development Project is *Français interactif* <<http://www.laits.utexas.edu/fi/>>. This NEH award-winning site contains all of the material for first year French language instruction, thereby freeing 1,000 UT students yearly from the burden of purchasing expensive textbooks. The text has also been widely adopted outside of UT and is currently reaching nearly 1 million ‘hits’ per day.

Lower-division foreign language programs are ideal opportunities for Strategic Development Projects. Language teachers have historically employed audio and video in language labs and on tape, and they were among the first to exploit the web to deliver multimedia directly to students’ dorms and apartments. To have widespread effect, however, development has to be centralized. Language study is required of *all* undergraduates, and Liberal Arts offers hundreds of sections yearly — most taught by graduate student Assistant Instructors. These AIs simply do not have the time to develop their own materials.

The College created the Texas Language and Technology Center (TLTC) to exploit technology in language instruction. Building on the success of LAITS projects such *Français interactif*, the TLTC and LAITS are supporting Strategic Development Programs in Persian, Arabic, Hindi, Spanish, and German.

The *Online Psychology Experiment and Research Application (OPERA)* is an excellent example of a Strategic Development Project with department-wide benefits. Created to help manage the experimental requirement in lower-division Psychology, the *OPERA* system is used by 2,500 students each semester. It streamlines tasks at the intersection between instruction and administration, and it allows teachers and students to focus on instruction — instead of the busywork of fulfilling requirements.

Digital Archive Services (DASE) is a Strategic Development Project with campus-wide value. Designed as a web-based application for managing digital images, sound files, video, and documents, *DASE* allows users to easily locate assets and organize them into personal collections and slideshows. Collections and slideshows can be downloaded, shared with other *DASE* users, or dynamically linked to other websites. *DASE* is used by departments in Liberal Arts, Fine Arts, Natural Sciences and others, and it currently holds several hundred thousand items in over 100 collections.

Texas Politics is a Strategic Development Project with exceptional value. This online textbook is available to the 5,000 students enrolled annually in the UT version of the state government course required of all public university students in Texas. *Texas Politics'* wealth of original material features video interviews with Texas state leaders. This media-rich site engages students' interest in a course designed to improve civic engagement and is judged to be more effective than traditional textbooks by 75 - 80% of student users. The site was cited as an example of New Scholarship and Emerging Forms of Publication in the New Media Consortium's 2007 *Horizon Report*.

Student Technology Assistants

LAITS has greatly expanded course development capacity by employing Student Technology Assistants (STAs) as part-time development staff. The program capitalizes on the growing technical skill levels and technological professionalism of our undergraduate students to leverage investment in classroom technology and course development facilities. STAs work under the direct supervision of LAITS staff and are employed on a wide range of projects. STAs gain the invaluable experience of collaborating with faculty — a new and distinctive setting for learning — while faculty are freed from technical chores to focus on content creation and teaching. The STA workplace — the LAITS Development Lab — has an 'open door' policy so that faculty can walk in to seek assistance with small-scale projects such as websites, audio, video, CDs, DVDs, Power Point, and a wide range of other technologies.

Faculty Instructional Technology Workshop

The LAITS Faculty Instructional Technology Workshop offers instructional technology training designed to give faculty the skills needed to create pedagogically-sound multimedia course materials. Attendees receive a stipend for their participation in the two-week summer workshop. Workshop sessions are led by senior faculty members and experienced technical staff. Participants learn the basic elements of project management and web design, engage in discussions about technology-enhanced pedagogy, and receive hands-on training in the use of hardware and software. Instruction is designed to increase the impact of our prior investments in technology. Effective use of multimedia equipment in technology classrooms is a particular focus.

Most participants are selected through the Faculty Course Development Grant proposal process. The IT Grant Review Committee directs recipients to the workshops to receive training prior to beginning projects or recommends the workshop to unsuccessful applicants who need to learn more about using technology before applying for future grants.

Multimedia Production Services

Multimedia can engage student interest, enrich meaning by contextualizing content, and increase cognitive integration through multimodal experience. LAITS encourages instructors to be creative in use of multimedia and offers a range of multimedia development services, including:

- Graphic design
- Image scanning
- On-location audio and video recording
- Audio studio services
- Video studio services

LAITS accepts small-scale projects on a first-come first-served basis. Faculty members with larger-scale plans are given startup assistance and advice, and they are encouraged to submit proposals for Faculty Course Development Grants.

Classroom Technology Support

Liberal Arts Classrooms Project

Course technology depends on classroom technology. Faculty members only invest the extra effort to develop multimedia materials if they are certain of teaching in a properly-equipped classroom. Conversely, the ubiquitous presence of multimedia equipment in classrooms is a powerful incentive for faculty to develop new and engaging teaching methods.

LAITS is entering the eighth year of a long-term plan to install standardized technology consoles and projection systems in all College classrooms. With the newly-renovated Garrison Hall building, Liberal Arts now supports over 160 classrooms with multimedia systems — including all of our classrooms with 50 or more seats. The key to the success of our project has been the design and mass-production of standard systems — especially our Classroom Technology Consoles.

Classrooms in the newly-renovated Garrison Hall will feature our new console design. The new console design has all of the features and functionality of the old standard console — with more work space and a slimmer profile. Telescoping legs allow the work surface to be raised and lowered electronically.

In the past two years, LAITS has installed technology in 25 additional General Purpose Classrooms and 25 departmental classroom — as well as having replaced projectors, touch panels and computers in 30 classrooms with existing systems.

LAITS has also designed a new dual-projection system that uses the same equipment we have in our single-projection classroom. This development is a huge improvement in terms of cost and support of our dual-projection systems. We have built five dual-projection rooms with the new design. The functionality is identical to the old dual-projection design — but at about half of the cost.

Plans are currently underway to construct a new state-of-the-art classroom complex as part of a planned new Liberal Arts academic building on the East Mall. Standing by its commitment to teaching, Liberal Arts will reverse the recent campus trend to omit classrooms from new buildings and plans to add 23 new General Purpose Classrooms with over 1,400 total seats — as well as 20 new departmental classrooms in the facility.

Campus-wide Classroom Services

Parallel efforts — often with Liberal Arts assistance — have been underway in every college. The technology classroom program has become a model for successful, large-scale, multi-unit collaboration.

LAITS continues to assist other Colleges and units with classroom equipment design, purchasing, assembly, installation, and support services. In the last two years, we have built rooms and/or provided support for Social Work, Architecture, Education, Nursing, Pharmacy and the Law School. Past clients and partners include Natural Sciences, Engineering, Communications, Human Resources, ITS, DIIA, and others.

In 2008-9 we will continue support for other Colleges with three major projects. During Summer 2008 we will install technology equipment in 7 new seminar rooms being constructed for the new Undergraduate Studies program. LAITS will provide support for these rooms under an arrangement similar to our contracts with Social Work and Pharmacy.

Liberal Arts is also assisting with the design and installation of a new 500-seat auditorium classroom as part of the Student Activity Center to be constructed next to Gregory Gym on the site of the F11 parking lot. LAITS will provide ongoing support for all scheduled courses in the auditorium.

Finally, LAITS is working out arrangements to assist Social Work with the renovation of the Utopia Theater. Support for the theater will be added to the existing LAITS/Social Work contract.

Classroom Management

A staff of 6 full-time and 20-30 part-time student staff provide all design, upgrade, maintenance, and support services for over 160 classrooms in Liberal Arts, Pharmacy, and Social Work. Student employees provide the lion's share of classroom support. Students test classroom equipment, operate a help desk, respond to trouble calls in classrooms, and develop web-based support materials. Through weekly meetings, students work together to set policy and plan how best to communicate with faculty. Some more-experienced students assist with classroom upgrades while others are assigned management tasks that free professional staff to focus on upgrades and maintenance. Cost for student assistants is borne partly by Liberal Arts and partly by the federal Work-Study Program.

Computer Lab Operations

LAITS and the College's academic departments operate 64 instructional computer classrooms and labs, as well as 35 labs dedicated to student research. These facilities are spread across multiple buildings on both the main and Pickle Research campuses.

Most UT students now have personal computers, reducing the need for "walk-in" labs with general-purpose computers and software. Accordingly, Liberal Arts has concentrated investment in 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 <<http://www.cwrl.utexas.edu/>> used by thousands of Rhetoric and Writing students each semester

- 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

Liberal Arts continues the emphasis on specialized labs with the plans for new Anthropology facilities on the top two floors of the new Student Activity Center to open in 2010. Labs will be constructed to support Linguistics, Anthropology, Archaeology, and Museum Studies.

The College is responsible for funding nearly all computer equipment for instructional labs. Equipment for the research labs comes from many sources, including some College funds. Departments request funding for lab computers by submitting proposals reviewed by the students, faculty, and staff on the IT Grant Review Committee described earlier. LAITS handles purchasing and maximizes volume discounts by aggregating purchases and inviting other colleges and units to take part.

Historically, departmental staff members have managed most instructional computer labs — often with ITAC or Liberal Arts salary support. Growing security concerns and the development of more efficient management methods have forced the College to rethink this arrangement. As a result, LAITS increasingly assists departments with lab management — a trend we expect to accelerate.

Server Operations

Liberal Arts encourages the use of central campus servers. However, many faculty and departments require specialized applications and/or support to meet their instructional mission (*see Appendix H for a list of Liberal Arts server facilities and systems*). Innovation in instruction is encouraged, and many departments set up their own servers as part of the development of new projects. When these projects mature and go into production, departments are encouraged to take advantage of the managed server facility in Mezes Hall — where a team of system administrators manages the facility, provides web and application hosting, server co-location, and support services to servers administered by departmental staff.

Liberal Arts departments request funding for servers by submitting proposals reviewed by the students, faculty, and staff on the IT Grant Review Committee described earlier. Whenever possible, equipment is procured during an annual, college-wide bulk purchase.

Network Operations

Campus networks are used for the delivery of course materials, communication between students and faculty, administration of courses and programs, and nearly every other instructional function. To keep up with the demands of new uses and new technologies, networks are in constant need of upgrade. The College of Liberal Arts has complete financial and management responsibility for the networks in 18 University buildings and for substantial parts of the networks in 8 other buildings (*see Appendix I for detailed roadmap of the Liberal Arts networks*). 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.

Security

Liberal Arts relies upon the central ITS Security Office (ISO) for recommended 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. In the last year, Liberal Arts completed the Information Security Office Risk Assessment (ISORA) and required a remedial scan for Social Security Numbers across all of its computer systems. These college-wide initiatives, as well as select Internal Audit reports, have helped Liberal Arts identify areas requiring remediation or attention. Working with the ISO, Liberal Arts has developed plans to improve the security in several departments, as well as across the College as a whole.

Infrastructure

The College of Liberal Arts and its 50+ departments, centers, and programs maintain technology infrastructure in over 30 campus buildings.

Web and Multimedia Development Facilities

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

- The Development Studio for web development and multimedia post-production
- The Recording Studio for audio recording and post production
- The Video Studio for studio-based video production
- Development Lab for an STA workplace and walk-in assistance for faculty
- ITS Scanning Center and Media Store for assisting faculty members with scanning and digitization of instructional materials; checkout of projectors, laptops, cameras, and digital recorders; and production and distribution of

course materials on CD and DVD

Smart Technology Classrooms

Liberal Arts is in the final stages of its classroom technology upgrade project. Although our designs have evolved over time, we maintain 4 basic standardized types of classrooms: multi-screen auditoriums, single-screen console-equipped classrooms, seminar-style rooms with equipment integrated into the central meeting table, and computer classrooms with personal computers stationed at every student seat. Table 1 provides a summary of the classrooms upgraded and supported by the College of Liberal Arts. (See Appendix J for a list of Technology-Enhanced Classrooms.)

Table 1: Smart Technology Classrooms by Type

<i>Classroom Type</i>	Seminar	Single-Screen	Multi-Screen	Computer Classroom	<i>Total</i>
	18	118	7	19	162

In addition to our classrooms, Liberal Arts maintains 2 classroom support facilities which house support staff who impact a significant number of students:

- **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

Table 2 provides details on the types and sizes of Liberal Arts Computer labs.

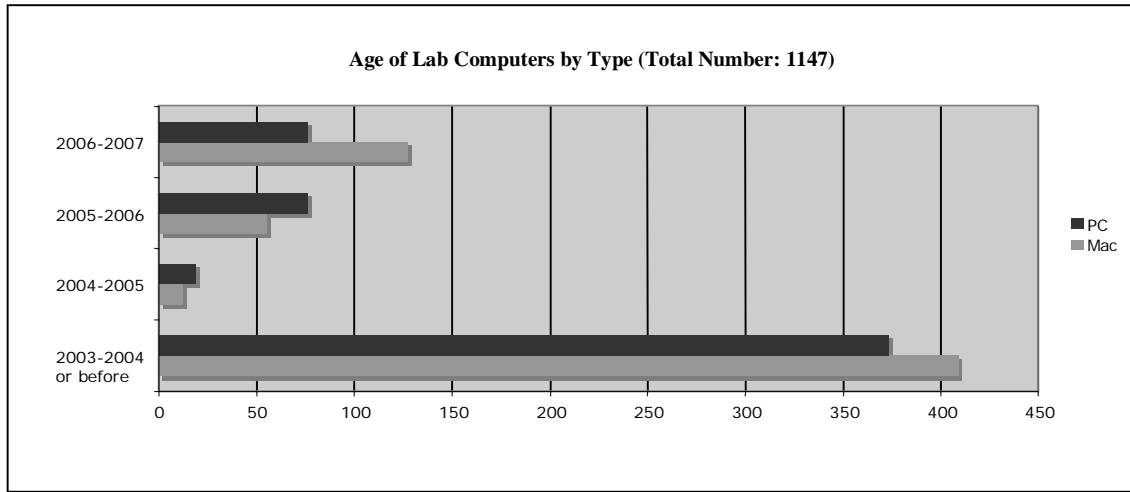
Table 2: Instructional Computer Labs by Type and Number of Seats

<i>Lab Type</i>	Under 20 Seats	20 to 30 Seats	Over 30 Seats	<i>Total</i>
Classroom	7	16	3	26
Walk-In	35	2	1	38
Total	42	18	4	64

Liberal Arts instructional labs have approximately equal numbers of Macs and PCs. About half of all lab computers were purchased in FY 2003-4 when the new South Mall labs were equipped and the Computer Writing & Research Lab (CWRL) replaced aging

computers. Two-thirds of our lab computers were purchased in 2004 or before and *will be four years old by the end of Summer 2008!*

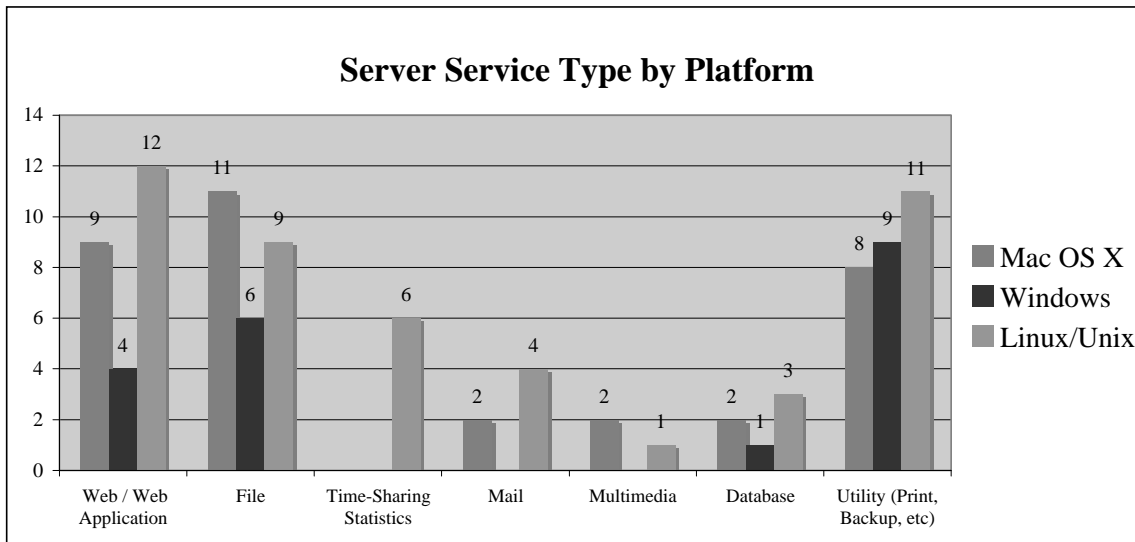
Chart 1: Age of Lab Computers



Server Facilities

Liberal Arts departments currently operate 100 servers with the majority being Linux/Unix systems — followed by Mac and Windows systems. Chart 2 details the usage of these servers by primary Service Type and Platform.

Chart 2: Server Service Type by Platform



(See Appendix H for a full inventory of Liberal Arts server types, functions, and facilities.)

Wireless and Physical Networks

See Appendix I, table 5, for details of Liberal Arts Network physical and wireless infrastructure.

Security of Facilities and Equipment

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 Fiber Optic Loop Article Protection systems.

Current and Proposed Funding Sources for IT Programs and Infrastructure

ITAC allocations and income from flat-rate tuition account for all funding for Liberal Arts Instructional Technology programs in 2007-2008.

Table 3: Liberal Arts Information Technology Funding Sources	
Funding Source	2007-2008
Flat-Rate Tuition	\$2,559,507
ITAC Recurring Infrastructure	\$639,256
ITAC One-Time Project Allocation	\$1,146,976
ITAC Recurring Joint Projects	\$59,000
ITAC One-Time Projects	\$105,000
Total	\$4,509,739

College of 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](#).

New Initiative: “Free” (Student Fee Funded) Printing

Over the years, students have regularly expressed concerns over the cost of ITS provided printing. This fall ITS raised their rates to 11 cents per page, explaining that they were not making a profit: it actually costs them this much to provide printing. The College of Natural Sciences did a study showing that we could provide printing at a fraction of this cost. In fact, we could provide it so cheaply that we could use student fee money to fund limited “free” printing. At an estimated cost of one cent per page for consumables (*i.e.*, paper and toner), we can fund one million pages in a lab for only \$10,000. Students would have to pay ITS \$110,000 for the same number of pages. Because our labs are proctored, we do not have to hire staff to look after the printers. And, the cost of high speed printers is dropping rapidly.

A decision was made to offer students limited “free” printing in all Natural Science labs as of September 1, 2007. Page quotas are set by the individual departments and are

usually determined by the number of courses in the department in which the student is enrolled. We emphasize that we are providing free printing not just to Natural Sciences majors but to students from across campus who use our labs. In addition to free black-and-white printing in computer labs, we provide free color printing in science labs, where color is required for lab reports. And, we provide students who are doing research posters with free large format color printing.

Serving the Entire University

Student fee money spent by the College of Natural Sciences benefits not only science and math majors, but students and faculty from across the university. Faculty from outside our college teach in our general purpose classrooms, using the teaching technology and taking advantage of our help desk. Student organizations regularly use our auditoriums in the evenings and on weekend. Virtually every undergraduate will visit our science labs and computer labs when they take the math and science courses required for their degree. We even operate special laboratories for students from other colleges, such as physics labs for engineering majors and a chemistry lab for nursing students. Our student study areas, wireless network, and joint-use computer labs are resources for every student on campus.

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](#).

Noteworthy 2007-2008 Expenditures

Our 2007-2008 ITAC funds are being spent largely as outlined in our 2007-2008 vision plan. While it is impractical to list every item purchased with last year's ITAC funds, a few large projects are worth mentioning.

- Standardized A/V technology was added to six departmental classrooms, conference rooms, and teaching labs located in five buildings.

- Two 40-seat computer classrooms were created in ACA, the new portable building recently installed on the parking lot behind Woolrich Laboratories. When not in use by classes, these rooms will serve as computer labs open to all students at the university.
- All computers in student computer labs in the department of Mathematics and the department of Chemistry & Biochemistry were replaced with machines offering dual core processors, two gigabytes of memory, CD and DVD burning capability, and 19-in-1 media card readers.
- Late this coming spring, the college's first server room for instructional computing will open on the second floor of the Biomedical Engineering Building. This room will provide a secure and highly reliable home for servers which host instructional applications in the college.
- In conjunction with offering "free" student printing, the college has upgraded its printing capabilities with new black-and-white, color, and wide format printers in many departments.

School of 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, 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 and assist faculty and students in viewing technology as a powerful tool that promotes quality nursing practice, teaching, and research.

Programs

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 are moving some of the lecture classes to other 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, for collaborative research projects, and serves as a satellite campus for Houston-based UT School of Public Health, (UTSPH). In addition, during the past semester, the UTSPH upgraded a portion of the teleconferencing equipment augmenting our existing equipment. All of the other tiered classrooms, except one, have University-built interactive consoles. Portable AV carts and ceiling mounted projectors accommodate AV-based instructional materials in other classrooms. A newly acquired mobile codec system, purchased with ITAC funds permits teleconferences in any space in the School.

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 computer facility has 34 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 21 computers outside the classroom plus the classroom workstations (when not being used for a class) are available to students 67 hours a week.

The Learning Center also furnishes 2 Macintosh and 13 PC laptops for student and faculty checkout.

Although wireless access has been installed in six primary 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 survey done of the nursing classrooms is attached.

The Simulation Lab features three clinical simulation classrooms with simulated, computerized hospital information systems (HIS). Students practice various clinical skills and respond to clinical situations using a variety of simulators, from high fidelity SimMan to lower fidelity task trainers such as IV arms. Renovations using Vision funds and University funds are underway to

create a simulation center housing high fidelity simulators so that we can create clinical scenarios to challenge or test students' critical thinking skills.

With the move of the Children's Hospital to the new Dell Hospital, Seton converted the facility to a Clinical Education Center (CEC). This facility features several clinical skills labs and multiple training rooms with high fidelity manikins. The School of Nursing is a member of the collective using the facility. To date we have had 4-5 lab groups assigned to the CEC for clinical skills classes. We hope to make more use of the CEC in the future.

Research Computer Lab

The Cain Center Computer Lab has 9 workstations (7 Pentium IVs and two Apple G4) with software needed by faculty and graduate students learning about and conducting 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.

Clinics (Children's Wellness, Community Women's Wellness, and the Family Wellness Centers)

The School of Nursing manages three health clinics, one for children in the Del Valle Independent School District, one that provides breast cancer screening for uninsured women in Austin and one that provides healthcare for underserved families. These facilities provide important sources of clinical practice for students and 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 for the entire School and 1.5 (60 hours) FTE Computer Technician Assistants. The LAN Administrator is paid from the School's classified staff wages account. The TAs are paid from the Student Information Technology Fee account (SIT Account).

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 20-hour/wk 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.

Infrastructure:

Network -- 100MB Ethernet throughout building—offices and classrooms

Wireless – available in all student areas.

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 1 GHz or better and 700 MHz Mac. Clinical faculty machines average G3s or better.
- Staff, financed by SON MO&E, Dean’s discretionary account and cascades from student workstations: average 400 MHz Apples.

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 and the Life Cycle Funding furnished by the University. These 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.

College of Pharmacy

Overview of Current Programs and Infrastructure

Vision/Mission/Goals of Unit

The UT College of Pharmacy Learning Resource Center is responsible for practically all academic information technology support within the College. Its mission statement, reproduced here from the College’s website, is a simple one:

Mission

The mission of the Learning Resource Center of the College of Pharmacy is three-fold:

- 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.

Services

The LRC makes its mission operational by supporting:

- live two-way and multi-point interactive video conferencing
- analog and digital delivery of recorded Pharmacy classes
- computer and audio/visual support for classes
- a student computer laboratory
- an instructional materials development facility
- a student media library
- a computer laboratory classroom
- the College website
- training and consulting in a variety of technical areas
- faculty and staff desktop and laptop computers

Infrastructure

The College of Pharmacy operates a full-time computer lab, a computer classroom (available until 3:00 as a General Purpose Classroom), and an audiovisual library that houses computers used for streaming video and general use as well as VCRs and DVD players:

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

Pharmacy computer lab 3.116 was remodeled during late summer 2006, increasing its capacity by about a third. This project is described in more detail later in this document.

The standard complement of software in both labs includes the Microsoft Office suite, web browsers (including specialized plug-ins for media types requested by faculty), A.D.A.M. software for studying anatomy, and a few other helpful utilities such as QuickTime. LabMan is used to manage the labs.

Keyserved software was expanded to include the entire Adobe Creative Suite CS. In addition to Photoshop and Acrobat, the suite included Illustrator, InDesign, and a few other useful utilities. This represents a significant enhancement to the keyserved offerings. Over the summer of 2007 the software was upgraded to CS 3.

Finally, in an effort to increase value that ITAC returns to graduate students, funds continue to be used to purchase JMP licenses for graduate students. This license is slated to at least double in size with greater adoption during the 2007-2008 academic year.

Technology Auditoriums and Classrooms

The College of Pharmacy had one of the first Technology Classrooms on the UT Austin Campus, PHR 3.106. In 1997, when it was significantly remodeled to bring it to its current configuration, it represented the state of the art in distance education and computer-based teaching facilities on campus. However, as with all such spaces, it must be aggressively maintained at a significant annual cost.

This room communicated with the UT System via a high-quality fiber signal until Fall of 2006. At that time, a dedicated PolyCom codec was purchased and installed in the College's control room. Having a dedicated codec has offered far greater flexibility, and the College now has a codec for each videoconferencing space.

A second room, PHR 4.114, is a fully functional videoconferencing and computer-instruction space. This room received a projector upgrade recently.

A third room, PHR 2.208, is one of the inventory of videoconferencing spaces. This completes the College's complement of video facilities: One auditorium-style large room, one auditorium-style medium room, and a compact boardroom-style facility. This room is slated for a technical upgrade in 2007-2008 in order to give users more display opportunities, such as dedicated flat-panel screens to display the remote site and outgoing video.

Other rooms have received and will continue to receive audiovisual upgrades in an effort to increase utilization while decreasing demands on staff time. The College placed campus-standard Technology Classroom Consoles in three PHR-located General Purpose Classrooms and has installed projectors and ancillary equipment, described below as PHR standard, in nearly all other instructional spaces. The life-cycle maintenance that is routinely requested via this mechanism will enable an update of the control system in the three General Purpose classrooms as well as projector replacement in two of the rooms; the third recently had a projector upgrade due to equipment failure.

Classroom Inventory

Room Number	Capacity	Equipment effective Fall '04	Installed Gen'l
2.108	127	NS standard	Yes
2.110	133	NS standard	Yes
2.114	60	NS 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 NS standard*	No
3.108	30	PHR standard (teaching lab)	No
3.110	30	PHR standard (multipurpose lab/classrm)	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

*equipped for videoconference

Networking and Associated Electronics

As discussed above, wireless Ethernet of the 802.11b standard was originally provided throughout the old and new Pharmacy buildings. This system was upgraded to 802.11g standard during 2005.

Total number of Ethernet ports maintained by the College ----- 997
 Number of static and dynamic IP addresses ----- 542
 Number of 100baseT switched ports----- 871

Early indications are that the College's wireless access points will have to be upgraded to maintain the campus standard. This activity will be funded from network maintenance funds.

Departmental Servers

The College operates four 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 and students for use in classroom spaces elsewhere not yet equipped with installed equipment.

We continue to provide laptops to students, faculty, and guests giving presentations. The provision of wireless Ethernet in the Pharmacy buildings has resulted in greater flexibility and is a boon for presenters using the internet. This capability will be even more important as web-centric applications such as the Google offerings continue to grow.

Current and Proposed Funding Sources

The LRC's funding has traditionally been chiefly derived from two student fee income streams. One is the College's Instructional Technology Fee. Although this fee has been combined with the flat-fee tuition, the level of support has not changed. Nearly 100% of the income from this fee is used to fund LRC personnel.

The second main source of income is ITAC funds. At present, ITAC funds virtually all non-human expenditures for IT: computers, video equipment for the College's distance education programs and local use, classroom audiovisual equipment, and so on.

The LRC also receives funding from the Dean's Office for some administrative salaries.

LBJ School of 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 2007, we have a total enrollment of 351 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. Beginning in the Fall of 2008 we will offer a new Master of Global Policy Studies degree. We anticipate a ten percent increase in the size of our entering class.

August of 2007 marked the first year of operation of our computer lab within the Wasserman Public Affairs Library. This move has allowed our students expanded access to the hard-copy collection and provided convenient access to electronic information. It is our hope that future developments will include providing personnel specialized in database and analysis tools to support student research.

Our two GIS workstations have been operational for a year. We hope that usage grows to warrant expansion of the number of seats with full access to the ESRI software suite. We anticipate a continuing focus in the coming year on collaboration between the School's Information Technology Services and the Wasserman Public Affairs Library to transform the learning and information environment to complement and enhance our students' experience.

We've continued to expand our collection of digitized video of speakers who have visited the School and are seeking ways to offer this material in additional formats that can be accessed through our website. We are also charter members of a consortium of Public Affairs Schools and policy organizations called the University Channel, housed at Princeton, which expands our outreach and participation in the public dialogue.

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

In AY 2006/2007, \$61,091 in salaries for LBJ IT staff came from fee sources (up from \$41,315 in 2005/2006). Of that amount, 75% came out of local LBJ School information technology fees. Total AY 2006/2007 local technology fee income was \$46,583; local course-related multimedia fee income total was \$989. We anticipate a recurring salary commitment of about \$65,000 from all fee sources (ITAC and local fees). Our IT staff was reduced from 5 to 4 FTE's as of summer 2006, then reduced again by the summer of 2007 to 2.5 FTE's.

Recurring operational funds, for maintenance and operation of our computer lab and ongoing maintenance for our technology classrooms is estimated to be \$25,000. This figure includes ongoing maintenance for our technology classrooms.

Total amount anticipated for programs requiring recurring funds from all fee sources is \$90,000. (\$65,000. salaries plus \$25,000. lab and technology classroom operation and maintenance)

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

The LBJ School of Public Affairs occupies offices in two buildings. Our computers are 100% networked on Ethernet hubs or switches; 85% are limited to 10 Mbps, and 15% have access to switched 10/100 circuits. All classrooms (9 total, 2 small, 6 medium, 1 large) have Ethernet ports on a vlan which forces them to be authenticated through the public port authentication system. Additionally, we have eight wireless access points, 3 on the first floor, 3 on the second floor and 2 on the third floor giving coverage for all student occupied areas. Additionally we have two satellite units located on the third floor at the Lake Austin Center building on Lake Austin Drive; The Governor’s Center for Management Development and the Ray Marshall Center for the Study of Human Resources.

The network infrastructure, specifically our building’s point of presence, for Sid Richardson Hall (SRH) was upgraded in the summer of 2006. The 10 Mbps circuits that were on hubs failed in August of 2007 forcing us to begin a long overdue upgrade of the 85% of the building that remained on the old network.

We maintain five departmental servers: a Windows 2003 Server hosting the LabMan server and primary Symantec security console, a Windows 2003 server used as a file server and secondary Symantec security console, a Windows 2003 server hosting SMS and SQL in support of updates and patch management. As of October of 2007, we’ve successfully migrated our mySQL databases that are serving the dynamic content on our website to ITS mySQL hosting.

Student Lab Facilities and Technology Classrooms	
Master’s student lab	46 computers, 38 PCs (Windows XP), 2 PC’s are dedicated to GIS software, 8 Macs (OS X), managed by LabMan software (running on a dedicated server)
PhD student lab	6 computers, all PCs (Windows XP), managed by LabMan software
Multi-media computer carts	2 carts, each with 1 PC and 1 Mac sharing keyboard, mouse and monitor
Technology classrooms (standard technology console)	3 (one 60-seat, two 24-seat), each with 1 PC and 1 Mac sharing keyboard, mouse and monitor in a

	console or cabinet
Technology classrooms (LCD projector and touchscreen control)	4 (each seats 26), each with ceiling mounted LCD projector, speakers and Crestron touchscreen control
Video conferencing technology classroom	1 (35 seat), with 1 PC and 1 Mac sharing keyboard, mouse and monitor in a console; this room is a passive site on UT's video conferencing network

LBJ ITS staff supports all faculty, student lab/technology classroom and staff computers at the LBJ School.

LBJ ITS supported CPU breakdown	
Student Lab Facilities, Technology Classrooms, checkout	76
Faculty (including research)	90
Administrative staff	130
Total	296

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

LBJ School IT programs and infrastructure are funded from an allocation from academic sustainability tuition (previously local IT fee, local course specific multimedia fee), E & G sources (staff salaries and a \$15,000 annual special equipment allocation) and 30 account sources (staff salaries from Wasserman and LBJ Foundation endowments).

School of Social Work

Overview of Current IT Programs and Infrastructure

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.

Small schools face formidable challenges in attaining and maintaining technology resources and support staff necessary to operate at a level consistent with other departments. We can easily exhaust our annual allocation simply providing equipment, software, and maintenance support. We are forced to proceed incrementally into the future, often holding funds from several years in reserve to fully fund improvements. This hampers our ability for futuristic innovation as we compete with other schools of social work and produce the graduates, research, and products that represent us as a flagship institution. 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 resources such as DIIA and ITS low/no

cost software purchasing, network and security support, and help desk training and support. Our IT expenses continue to rise with the complexity and security implications of each new implementation or University policy. We are increasingly in need of additional recurring funds for IT consultants, secure disk storage, service agreements, network services, etc.

IT Programs

ITAC funds are used to support the following areas.

Network Infrastructure

We have 100MB Ethernet capacity, but 95% of the building is only 10MB because of older wiring that need to be replaced. 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 and four seminar/conference rooms. All seven classrooms have LAITS consoles. One is a computer classroom with 30 student workstations. The seminar rooms have projection and sound systems and share VCR/DVD/Doc camera on a mobile cart. Six of the classrooms are maintained with an annual service contract with LAITS. 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 TA/GA's and adjunct faculty. We perform maintenance, upgrade, and replacement costs on all the rooms from ITAC funds.

PHD Office

We have four joint use student workstations in our Ph.D. office. These were new purchases this year from 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. 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.

Infrastructure

Although we have Ethernet throughout the building, only 5% of the connections are 100MB. The rest are 10MB and in most cases will require new wire pulls to upgrade. We

have full wireless coverage in the building and a fiber link to the NOC. We continue to provide network access for Central Duplicating and connections for the University Child Care Center, both located in our building. The School has a few dedicated servers. Internally they provide category III data file sharing, networked printer access, manage the IT classroom, and provide utility, diagnostic and installation software. Externally they provide limited Internet services such as drop-box information requests and surveys.

Our classroom infrastructure is almost complete. We have seven classrooms with LAITS consoles. One is a 30 workstation computer classroom. Four additional seminar/conference rooms are equipped with basic sound and video projection systems and share a mobile cart with document camera, VHS/DVD player, laptop connections, and touch screen management. The School does not currently have a teleconferencing system. Our large capacity auditorium is used for classes, presentations, conferences, and theater productions. The Utopia Theatre is used by many other departments on campus in addition to the School of Social Work. It does not have any built in technology resources. We are in the process of renovating the theatre.

The LRC computer laboratory is managed as an open facility, not limited to social work students. The lab is used by students, TA's, AI's, GA's, and faculty. The computer lab is filled to capacity with 22 workstations,. The LRC has tape editing equipment an AV workstation, a color scanner, and a digital camera. The LRC has a vast collection of video tapes and recordings that need to be digitally preserved and cataloged.

Current and Proposed Funding Sources

Our annual ITAC allocation is our primary source of IT funds. Last year we received a formula allocation of \$64,807 and a one-time allocation of \$39,121. 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 and TA/GA's. These positions provide support for curricula development, student projects, IT classrooms, and the LRC computer lab. Other support funds for staff come from School accounts. The school continues to seek outside funds especially for renovations to the Utopia Theatre. We also rely heavily on ITS and DIIA services and support.

• CENTRAL UNITS

Accessibility Institute

OVERVIEW OF CURRENT IT PROGRAMS AND INFRASTRUCTURE

Vision/Mission/Goals of Unit

The Accessibility Institute integrates technology, accessibility, and learning for everyone through research, education, advocacy, consulting, training, and service.

The Accessibility Institute promotes all aspects of Web accessibility by providing free training and consulting to the UT community, by conducting cutting edge research, and by proactively incorporating accessibility into all education research and development activities.

Goal:

To ensure that UT Austin is the world leader in providing online instructional resources that are accessible to all students, including students with disabilities.

Methods:

- Perform assessments of online instructional resources against national and international standards for Web accessibility
- Provide accessibility training to faculty, students, and staff developing online instructional materials
- Carry out user testing to measure impact of accessibility barriers on students with and without disabilities
- Assist developers in integrating accessibility into project planning and design
- Develop online resources to support creation and successful use of accessible course materials

IT Programs

- Usability lab (user testing that includes participants with and without disabilities)
- Compliance checking (evaluation of online resources against national and international standards for Web accessibility)
- Accessibility training and consulting
- Student Accessibility Team (conducts accessibility evaluations of instructional Web sites, develops tutorials for using important instructional applications with the JAWS screen reader, interacts with faculty and others developing instructional sites)

Infrastructure

Accessibility/Usability lab:

- Desktop PC (Windows XP)
- PC laptop
- Mac laptop
- Video cameras
- Scan converter
- Mixer board
- Session monitoring
- Video recorder
- Morae usability testing software
- JAWS and Window-eyes screen readers (for use by people who are blind)
- ZoomText screen magnifier (for low vision)

Current and proposed funding sources for IT programs and infrastructure

Current

Annual allocation from Provost's office, ITAC funding, subcontract project with Center for Agile Technology

Proposed

In addition to ITAC, we are collaborating with LAITS on seeking grants to build instructional materials that are accessible.

Division of Instructional and Innovation 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 Programs and Services Supported by ITAC Funds

~FAST Tex—Administer and monitor faculty IT projects and employ 40-50 students annually. Twenty-six projects are in progress, impacting more than 59 courses.

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 Ongoing Course Assessment system, Blackboard building blocks, eGradebook, 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.

Assessment—Conduct classroom assessments, program evaluation, and research to support student learning.

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 2006–2007, approximately \$117,900 was spent to support DIIA's infrastructure.

Servers	\$7,100
Hardware	\$2,300
Software	\$6,500
Computers and monitors	\$102,000

NOTE: The infrastructure costs do not include the personnel costs associated with running DIIA's programs and services.

Current and proposed funding sources for it programs and infrastructure

DIIA receives student fee money and state-appropriated funds to support its charge to develop policy for technology-enhanced learning and to support eight mission-critical operations: credit-by-exam testing, credit 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 does not receive other local money or special funding for five other key operations:

- Provide students and faculty reliable instructional technology services.
- Enable direct access to online and multimedia technologies for learning and teaching.
- Support and complement 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 more than 2,800 master's degrees are awarded each year. The Graduate School's fellowship program makes 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.

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

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.

IT Programs

A one-time project allocation of \$10,000 was provided for the 2005-06 academic year to develop an on-line Grant Pathfinder. The Graduate School is hoping to receive recurring ITAC funds to further cross-disciplinary information technology initiatives.

Infrastructure

The Graduate School has 42 Apple desktop computers, 7 Apple laptop computers, 3 Dell PC desktop computers and 1 Dell laptop computer. There are 2 networked multifunction copiers, 4 networked monochrome printers, and 1 networked color printer. 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 1 Dell PC desktop server that serves as our office fileserver. It is secured with firewall and antivirus software that is backed up nightly by our office LAN support, Student Information Services (SIS).

The Graduate School supports one position in the SIS Unit, under the direction of Angela Svoboda, to assist with information technology needs and maintain automated systems.

SIS has created a recruiting toolkit this past academic year to assist the Graduate School and other departments with collaborative recruiting efforts. The first phase of this toolkit is completed and is being tested.

Current and proposed funding sources for IT programs and infrastructure

The Graduate School primarily uses Option III program fees and funds from flat rate tuition as support for IT programs and infrastructure. ITAC funds are needed to develop cross-disciplinary online graduate student tools.

Harry Ransom Center

Overview of Current IT Programs and Infrastructure

Vision/Mission/Goals of Unit

The mission of the Technology and Digital Services Unit of the Harry Ransom Center is to provide skillful and effective technical support for all of the Center's programs and services, including:

- Acquisition of cultural materials for the purposes of scholarship and education
- Preservation of and access to creations of cultural heritage through cataloging, conservation and collection management
- Support of research through public services, symposia, publications and fellowships
- Provision of education and enrichment for students, scholars and the public through classroom support, exhibitions, public performances and lectures.

Ransom Center Support of Classroom Instruction and Scholarship

The Ransom Center supports classroom instruction and access to resources for UT scholars through its research materials and services. The Center plays an integral role in educating UT students, primarily in the colleges of Liberal Arts, Fine Arts, Communication, and the School of Information by providing access to primary source materials and support resources for these fields. While the Center supports research by UT students and scholars from all academic divisions, it is particularly engaged in support of academic programs in English, French and Italian, American Studies, Plan II, Liberal Arts Honors, Photojournalism, Radio-Television-Film, Theater and Dance, Music, and the School of Information. The Center also provides one-year internships that are available to UT students from all fields of study.

Information Technology is fundamental to the Ransom Center's services to UT students and scholars. Access to research and instructional resources is provided through the Center's web site, UT Library Online, in-house databases, and audio and/or video copies. Unique research materials available only on site are made accessible to UT scholars on a 24/7 basis through digitization. Unique materials that are completely inaccessible for classroom and research use due to fragility or value (such as the Gutenberg Bible) are made accessible through digitization. Ransom Center IT staff provides technical support for UT classes held in Ransom Center classrooms (see list of classroom use, attached). Two Ransom Center classrooms are now equipped with permanent IT installations, and four classrooms are supported by mobile IT equipment provided on a class-by-class basis.

IT Programs

Technical support

Functions performed by technology staff in support of 140 staff & 261 pieces of technology equipment include:

- Troubleshoot hardware, software, and networking issues
- Install and maintain hardware and software
- Train staff in use of hardware and software
- Enable and support wired and wireless network

Web site

Functions performed by web staff include:

- Maintain web site
- Format content for the web site
- Edit existing web content
- Design and compile kiosk content
- Write software to enable web-based databases

Databases

Functions performed by database staff include:

- Support current databases
- Transfer databases from old software to new software
- Create new information systems
- Work with staff with all database issues

Audio/visual event & classroom support

Functions performed by Technology Services staff include:

- Videotaping activities, including production of dvd/vhs products of the taping event
- Technology support in the theater (lights, sound, computers, display)
- Provide equipment & support for classes, presentations, events

Digitization

Functions performed by digitization staff:

- Digitization and processing of books, manuscripts, photographs, art, slides, posters, 3D items in the collection
- Video transfer to digital media
- Audio transfer to digital media

Administration

Functions performed:

- Manage & coordinate technology functions throughout the organization; write reports; maintain statistics
- Analyze & determine hardware, software, networking & media needs
- Order, install and maintain hardware & software & supervise staff in same
- Provide security for computer and network systems; work with the University to maintain current computer and network security standards
- Maintain computer accounts (administrative computing, remote access, email, system)
- Maintain web pages & supervise staff in same (upload, format & correct files; run statistics and diagnostics)
- Communicate with other UT departments on technology issues (ITS, UT Network Information Center, University Libraries)
- Serve on campus technology committees
- Interact with patrons, vendors & external service bureaus
- Train, supervise, & manage Web Master, Information Analysts, Librarian, Media Specialist, Technology Intern, work study students, graduate students; train staff and HRC guests in use of computers, networking, systems and accounts
- Continually upgrade knowledge and maintain awareness of developments and trends in technology

Infrastructure

Classrooms

The Ransom Center has six classrooms, two of which are equipped with permanent technology installations (screen, projector, speakers, controls). For classes held in the other four classrooms, IT staff daily install and uninstall laptops, data projectors, screens, speakers, and a TV/DVD player as requested.

Ransom Center IT

Computers:

190 desktop/laptop, 86 MAC OS and 104 WIN OS
4 storage systems, 1 MAC and 3 WIN

Other devices:

67 devices, including printers, scanning devices, projectors, TVs, VCRs, DVD players.

Network:

220 data nodes

7 wireless routers

Current and proposed funding sources for IT programs and infrastructure

Current funding sources. Funding for all permanent Ransom Center IT staff salaries is from the Ransom Center regular budget. Partial funding for one half-time IT position is from our 2007-08 ITAC allocation of \$14,557. 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.

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;

- the University community with skills 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 Libraries provides over 1,000 devices in support of student research and instruction through its thirteen branches including Electronic Information Centers in the Perry-Castañeda Library and the science libraries. Through these computers and networks the Libraries provides access to its owned and licensed electronic resources as well as to the open web so students can review their finances at UT, register for classes, handle other administrative chores, or just check email, read the news, or surf the web.

Laptop Checkout

With a valid UT ID students may check out laptops from Perry-Castañeda Library and the Fine Arts Library.

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.

Infrastructure

The human and technology resources required to support the digital library have grown with the increase in the use of electronic, web-based resources and services by our students and faculty. We have found that while there is still demand for our printed materials there is an ever-increasing demand for information that can be delivered to the student or faculty member anytime, anywhere.

The technology platform outlined below is redundant and failsafe and can recover from hardware failure without downtime or reduced availability of systems. Following is an outline of the resources required to deliver digital library services:

Production Web Servers

- 16 Sun Microsystems CPUs running Solaris w/ 64 GB of memory
- Apache web server
- EZ Proxy server (for remote access to licensed resources; EID required)
- Helix streaming media server (for audio and video delivered over the web)
- Sun One application server
- SFX open url server
- Metalib federated search server

Production Library Management Servers

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

Production Database Servers

- 4 Sun Microsystems CPUs running Solaris w/ 8 GB memory
- 12 Windows servers for application hosting
- MySQL DB server
- Z39.50 DB server
- LDAP Directory Server

Production Search Servers

- 2 Sun Microsystems CPUs running Solaris
- Verity K2 Enterprise Server search engine

Network Attached Storage

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

Tape Backup/Archiving Library

- Backup system located in main campus data center
- 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

Development Servers

These servers are the staging area for work that is copied into production

- 6 Sun Microsystems CPUs running Solaris w/ 3 GB memory
- Apache web server
- Helix streaming media server
- Sun One application server

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 bound-book scanner
- Epson 1640XL large format flatbed scanner
- Xerox Digipath duplexing document scanner
- Contex Chroma TX wide format scanner
- Nikon coolscan 4/5/9000 slide/transparencies scanner
- Kodak DCS Pro 14N digital camera

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 (UTOPIA funds, grants and 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, 2007-2008

<i>Funding Sources</i>	<i>Salaries</i>	<i>Fringe¹</i>	<i>MO&E</i>	<i>Total</i>
<i>UT Libraries Budget</i>	\$2,026,120		\$516,851	\$2,542,971
<i>ITAC Funds</i>			\$101,871	\$101,871
<i>UT System Funds</i>			\$300,000	\$300,000
<i>TDL Funds</i>	\$211,370	\$48,745	\$283,484	\$543,600
<i>Total</i>				\$3,488,442