

Review of

**COLLEGES' AND SCHOOLS' 2001-2002 VISION PLANS
FOR INFORMATION TECHNOLOGY**

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The University of Texas at Austin
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EXECUTIVE SUMMARY

The vision plans prepared annually by each college or school on campus provide information essential to both short and long-term planning for information technology for The University. The vision plans describe changes in information technology and how these changes affect every school, college, and department on campus; they also offer proposals to fund projects to accommodate the information technology needs of the students and faculty.

Many projects span multiple years and can have an impact on college annual operating budgets. The colleges and school have proposed projects whose costs total more than fifteen million dollars.

The college vision plans are available on line at:

<http://www.utexas.edu/computer/itac>

ACADEMIC COMPUTING AND INSTRUCTIONAL TECHNOLOGY SERVICES

Executive Summary

Academic Computing and Instructional Technology Services (ACITS) provides information technology services to University of Texas at Austin students, faculty, and staff. In keeping with the mission of the University, ACITS shares the responsibility of providing campus-wide information technology services with Administrative Computing Services and the General Libraries. The ACITS mission is to support the University's academic and research programs by providing an information-technology-based environment, technological capabilities, and able staff who can assist students, faculty, and staff in their learning, teaching, research, and outreach activities. In the past, ACITS had three major divisions: Academic Computing, Instructional Technologies, and Telecommunication and Network Services. This service model aligns services with the needs of students, faculty, and staff. The ACITS vision plan described here includes projects from two of these three major divisions. With the recent change in administrative structure, the Center for Instructional Technologies is submitting a separate vision plan.

ACITS receives an annual recurring allocation that provides funding for a portion of the costs to operate the Student Microcomputer Facility (SMF) and the Center for Instructional Technologies (CIT), and to provide some support for the Help Desk and Training Services. That allocation for 2000-2001 is \$1,666,274, and is allocated as follows: to operate the SMF (\$398,746), to support training, Web, and other customer services (\$446,860), to support the Help Desk (\$150,000), to pay on an installment on the three-year loan from the UT System to replace all the SMF computers in summer 2000 (\$360,000), to support the CIT (\$290,668), and to fund a campus-wide student IT use survey (\$20,000). For the 2001-2002 academic year, ACITS requests an increment to this recurring funding to accommodate increased minimum pay for SMF proctors and professional staff (\$39,054), enhancing Help Desk and Training services (\$201,200), implementation of new initiatives: LoneStars, (\$122,300) and an Anytime-Anywhere training program (\$350,000). The total additional recurrent funds requested are \$721,554.

For 2000-2001, ACITS also received a one-time allocation of \$567,300 for special equipment. For the new vision plan, ACITS has identified one-time projects totaling \$2,097,460 for implementation over the next three years. These special projects, if funded and implemented, will provide significant enhancements to the campus network, the campus cable system, and the University Mailbox Service (UMBS) and will provide seed money for some investigative efforts in ATM-based technology and Internet multicast technology. We began a new three-year life cycle for the Student Microcomputer Facility upgrade (\$850,000) in July, 2000. Funding is also requested for other major projects including UT knowledge base, upgrading the campus cable system, upgrading the campus mail server, active calendaring, advanced Web publishing, and a Web testing lab.

Review

The ACITS vision plan is a comprehensive document that includes a wide range of projects of importance to UT-Austin. Since the plan was originally submitted, the ACITS reporting line has shifted from the Provost's office to the new VP for Information Technology, although the Center for Instructional Technologies (~18 staff) will continue to report to the Provost. The academic computing organization will continue to contribute to instructional technology, but this role will need to be clarified during the next several years. Therefore CIT has submitted a separate vision plan for 2001-02. In addition, there is a separate vision plan for UT Direct and Blackboard, a project carried out jointly by ACS, ACITS, and CIT (with separate funding).

Below several aspects of the vision plan are highlighted for ITAC:

1. ACITS has made significant contributions to the campus through its software licensing programs. The entire campus has benefited from the MICROSOFT site license and the Library benefits from the Sun licensing program. ACITS should continue to aggressively pursue these opportunities and even play a larger role in software licensing and standardization.

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2. Implementing much-needed directory services that will better enable campus departments to share institutional data should be strongly supported. These services will be very important to the campus as we attempt to share data through various major services deployed through UT DIRECT. So far ITAC is the only identified source of equipment funds to move this technology forward.
3. ACITS is leveraging its programs and services throughout the campus with proposed projects like "LoneSTARS", "Anytime, Anywhere" training, and network infrastructure development. Putting more effort into training support may be one of the best areas of expansion for ACITS, such as training programs for instructional technologists, network administrators and computer/network security officers.
4. The LoneSTARS initiative sounds like a very good way to address student support concerns. It takes computing support infrastructure to where the students live and has the potential to meet this significant need. LoneSTARS, when combined with the "Anytime, Anywhere IT Training" initiative, addresses the need for keeping our students, faculty and staff up to skill level in a wide variety of areas of information technology.

UT DIRECT AND CLASS WEBSITES (BLACKBOARD)

Executive Summary

The implementation of UT Direct phase one has been a tremendous success as illustrated by the number of users and the number of hits to the System each day. The statistics show positive progress towards the UT Direct vision. Other characteristics of progress include the high degree of customization and personalization UT Direct affords its users.

A benchmark of success is how UT Direct compares in relation to other similar projects/products other Colleges and Universities have released. In all the "portal" implementations we have seen across the nation, UT Direct is, by far, the most integrated - both back end and in presentation to the user - and the most fully featured, meeting the needs of the diverse constituents the Colleges and Universities serve. We are very proud to be a national leader in this respect and seek to continue this leadership role with future enhancements to UT Direct.

Many Colleges and Universities are inquiring about UT Direct or sending representatives to UT for site visits. They want to see how we accomplished UT Direct so that they might do the same. Some Colleges and Universities have asked for our software to implement on their own campuses.

The metrics by which we have judged UT Direct to be successful include the following samples from the launch on August 23 through November 3, 2000.

- Over 29,000 people have claimed a UT Direct home page
- 27,127 students (some student employees)
- 6,907 freshmen
- 10,893 other enrolled undergraduates
- 4,989 enrolled graduate students
- 2,083 graduate school applicants
- 10,973 employees (some were students and employees)
- The UT Direct home page averages 5,000 hits per day
- The UT Direct navigation system averages 10,000 hits per day
- The UT Direct Integrated Degree Audit Service (IDA) averages 8,000 hits per day
- The new UT Direct Address Change service averages 5,000 hits per day

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The first phase of the project focused on student services. The next release will focus on extending faculty and staff services plus some additional student services. Approximately 66 new services will be available in UT Direct by September 2001 for faculty, staff and students. Thirty-six of these services will be available by January 2001. We are currently working with the Development Office to implement alumni services as well. ACS and ACITS request funding for 2001-2002 for the UT Direct project in the amount of \$664,765.

Review

No review was required.

SCHOOL OF ARCHITECTURE

Executive Summary

Our continuing goal is to provide our students with practical and challenging training in the use of information technology that reflects the state-of-the-art architecture and planning practice and establishes a foundation for their practice in the future. This goal is being achieved. Our challenge has become the maintenance of high standard and quality in the effort.

The planned network upgrade for fiscal year 2000-01 was under funded. A portion of the project focusing on Goldsmith Hall will be completed. The remainder of the project, with additional considerations for West Mall Office Building and Battle Hall will be extended into a second year.

Digital manipulation and production of large-scale images is increasingly important in Architecture and Urban Design as well as Community and Regional Planning. This project will establish and augment our large scale imaging capabilities with a drum scanner, large storage capacity workstations, and a large format plotter.

An increasing demand for computer-aided design instruction in the curriculum combined with the success of existing computer based studio courses indicates the need for an additional design studio with extensive computer resources.

The Digital Image Collection project is continuing; a new coordinator has been hired for this project. The goal of the project is to complete the cataloging and creation of a digital archive containing a sizable portion of the 200,000 images in the School's 35mm slide library in the Audio Visual Resource Collection by the year 2003.

Review

Five projects totaling \$390,000 were submitted in the 2001-2002 School of Architecture (SOA) Vision Plan. The proposed projects were conceptually sound, cogent, and fiscally doable. The emphasis is on direct student support and infrastructure needs of both faculty and students. Career skills expected of students as they enter today's workforce clearly play a prominent role in the planning of IT services within the School. The proposed expenditures fit within the identified goals.

Projects

A. Network Upgrade – Phase II	\$200,000
B. Large Scale Imaging Facility	\$40,000

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C. Computer-Aided Design Studio	\$35,000
D. Digital Archive Project	\$30,000
E. Cyclical Upgrade of Equipment	
i. Computer-Aided Teaching Facility	\$50,000
ii. Computer-Aided Design Studios	\$35,000

Two convincing arguments for funding projects A and E: Network Upgrade and Equipment Upgrade, rest with the School's track record in successfully:

1. Completing the Phase I of the School's network upgrade in 2000 which directly supports the teaching and learning environment within the School. Funding the Phase II of the Network upgrade project (\$200,000) would allow the School to continue the necessary infrastructure enhancements to enable a high level of service.
2. Adopting and implementing a life cycle funding plan for equipment upgrade (\$85,000), matched by the School's own IT funds (\$20,000), would provide for a steady influx of up-to-date equipment in a routine way.

These two projects are mostly self-contained within SOA; thus, they would not have significant impact on the campus infrastructure.

Projects B and D, the Imaging Facility and the Digital Archive merit consideration for in-support funding as seed money to encourage SOA to seek collaborative and concurrent funding resources from units such as the College of Liberal Arts and the General Libraries which have expertise in developing such endeavors.

\$35,000 of the requested \$45,000 for hardware and peripherals in project C: the Computer-Aided Design Studio, seemed to have been embedded in project E ii.

As indicated in the plan, funding for these projects would allow the School to meet the challenge of maintaining a high standard and quality in providing students with practical and challenging training in the use of technology.

MCCOMBS SCHOOL OF BUSINESS

Executive Summary

This vision plan establishes the strategic goals for information technology improvements for the McCombs School of Business for Academic Year 2001/2002 and beyond. In view of recent history, the change in computer technologies has been so rapid that strategy extending more than a year is certain to be obsolete before it can be brought to fruition. The anticipated technical operational framework over the next few years can be envisioned and serves as a planning tool.

As a statement of policy, we will adopt the most relevant business-related hardware and software technology for the business school as soon as it is commercially available. We will accomplish this through strategic alignments with our corporate information technology partners and judicious use of ITAC fees, the business school's information technology fees, course fees, multimedia fees, state allocated funds, grants, and donations from industry and government.

Our program to convert our school LAN to 100 MB switched Ethernet and to rapidly deploy high performance Windows 2000 Enterprise Servers has positioned the business school very favorably for the coming migration to even higher bandwidth networking. Conversion of the business school to 100 MB switched Ethernet will be completed in 2000/2001 as rewiring of faculty/staff offices and classrooms in

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CBA are completed. Rapid deployment of Windows 2000 has also positioned us to play a leading role in the soon to be implemented “smart card” authorization scheme to provide one-stop authentication for all campus technology services.

Review

1. Projects of Significant Importance to Student Computing and Worthy of Special Consideration:
Wireless Networking – In addition to being a project that lends itself to leveraging with Network Services and impacting the campus wireless airspace, wireless networking represents a burgeoning area of collaboration. Peer-to-peer networks can easily be set up, allowing unparalleled collaborative efforts between students.
2. Leverage Opportunities with Other Campus Units:
“Campus-wide comprehensive computer-based training and core skills assessment program” – Training represents a significant need among IT support staff across campus. Off-campus training is expensive, so to have computer-based training on campus would be a benefit to all departments and units with support staff as well as to individuals.

Wireless – Networking Services has already installed public wireless access points outside the Student Microcomputer Facility. Making additional airspace “wireless friendly” will further encourage the adoption of this technology.

Help Desk – While the description and cost analysis do not specify what software would be purchased under the Help Desk Improvements project, as ACITS is in the process of purchasing an enterprise-wide incident tracking solution, coordination between RMSoB and ACITS on this project would be to the benefit of both organizations and improve technical support to the campus community.

3. Impact on Campus Infrastructure:
Security Manager – Having a dedicated security manager for the School of Business should improve security for the rest of UT as well.
Upgrade of Production Servers and Network Upgrade – Both of these projects are likely to impact UTnet by increasing the volume of traffic seen on the rest of the network.
4. Significant Trend Features:
Smart cards and X.509 digital certificates – With the proliferation of computing resources and services across campus and the need for secure authentication and authorization, sign-on technologies such as smart cards have enormous potential.
5. Noteworthy Items:
Multimedia upgrades – No cost analysis was provided for this project.

COLLEGE OF COMMUNICATION

Executive Summary

The College of Communication continues to have the following technology goals for students, faculty and staff:

- Use instructional technologies to improve the classroom environment and optimize faculty time.
- Give students experiences with state of the art technologies and practices.
- Define the requirements for new communication technologies.
- Help set the national research agenda for communication technologies.

To this end, the College seeks for fiscal year 2001-2002 its annual ITAC allocation, in addition to \$132,673 in special project ITAC allocations. These projects include: switched network infrastructure upgrades, additional joint use facility funding, digital library maintenance and wireless network infrastructure. This current fiscal year, the College will realize income of approximately \$1,997,803 in three fee accounts: the University's Technology Fee (ITAC), the College's Instructional Technology Fee and the College's Communication Learning Equipment Fee. Approximately 28% of these monies support staff needed to manage and assist with technology. Another 40% will be spent on equipment. The remainder of the funds will be used to support the general operation of the technology staff, the Help Desk, the Media Center, the Instructional Design Group, the Videoconferencing Facility, the Digital Video Lab and the College's servers, network and infrastructure, in addition to debt service for a UT System loan. (See appendix: 2000-2001 IT Projected Summary.)

Last year (1999-2000), the College received \$219,379 in ITAC funding, had a balance forward of negative \$4,860.46, cancelled old purchase orders for \$1,106.16 and expended \$215,624.70, for an ending balance of zero. The expenditures consisted of \$139,825.98 for the operation and management of the Joint Use Computer Facility, of which \$128,579 was paid to ACITS as a management fee. The remainder of the funds were allocated for the Digital Archive project of which \$29,764.15 was spent to hire a project manager (six month temporary position) and \$46,034.57 for equipment.

This year the College refocused the role and operation of the former faculty studio, now called the Instructional Design Group, from a self help resource for faculty, with one staff member to assist them, to a full service instructional technology lab with four technology staff to actually 'do' the project, not simply assist. Recently the IDG conducted an analysis of current College courses and found that 55% use web based technologies in some fashion. One of the goals of the IDG is to increase this percent each semester and already has begun to realize this goal by working on twenty-three proposals in just six months.

Review

Specific comments are in various locations of the plan. Also included are brief statements about each of the major projects and what impact they might have in different areas.

1. Switched Network Infrastructure Upgrades TOTAL: \$33,000
Significant importance to Student Computing - Yes, somewhat by creating more robust networking infrastructure in the College
Opportunities to Leverage with Other Departments - NONE
Impact on Campus Infrastructure - Not significant
Significant Trend Features - NONE
Noteworthy Items - NONE
2. Communication Joint Use Facility Contract and Upgrade TOTAL: \$38,528
Significant importance to Student Computing - Yes

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Opportunities to Leverage with Other Departments - Somewhat because of joint use facility but not significant

Impact on Campus Infrastructure - Minimal

Significant Trend Features - NONE

Noteworthy Items - NONE

2. Communication Digital Library Maintenance TOTAL: \$42,025
Significant importance to Student Computing - A little through easy access to digital media
Opportunities to Leverage with Other Departments - Definite opportunities to collaborate with other departments and leverage with Fine Arts, Library, GSLIS, and others
Impact on Campus Infrastructure - Somewhat if Digital Library grows in usage and size of digital objects
Significant Trend Features - Streaming media
Noteworthy Items - NONE

3. Wireless Network Infrastructure TOTAL: \$19,120
Significant importance to Student Computing - YES
Opportunities to Leverage with Other Departments - Yes, possible if wireless extends to dorm areas across the street
Impact on Campus Infrastructure - Impact on campus network infrastructure
Significant Trend Features - wireless and laptops
Noteworthy Items - NONE

COLLEGE OF EDUCATION

Executive Summary

As we approach the end of the first year of the new millenium, the College of Education (CoE) continues to realize steady progress toward the goal of integrating computing and telecommunication technologies into all phases of academic, research, and service functions. The College envisions that all components of its undergraduate and graduate student preparation programs, including field experience, academic courses, and research, will utilize the latest computing and telecommunications technologies to enable collaboration between faculty and students, thereby maximizing educational benefits, professional preparation, and research quality.

The 2001-2002 edition of the College of Education Technology Vision Plan builds on progress achieved in prior-year plans, and sets forth new goals. Proposed 2001-2002 projects include support staff for faculty who are working to integrate technology into curriculum, support staff for web-based student services, laptop computer leasing for all CoE teacher education students, portable videoconferencing equipment for use in student teaching activities at Austin ISD Professional Development Schools, support for the preservice teacher component of a large telementoring project, establishment of a mobile computer laboratory, digital video equipment for student use, and expansion of wireless networking services in the Sanchez Building (SZB).

Previous CoE Technology Vision Plans have charted the course that the College follows in pursuing its mission by proposing innovative uses of technology to create an enriched student learning environment. Some elements of each Vision Plan are recurrent; maintenance and upgrades, for example, are integral to the continued usefulness of all information technology systems. Equally important are the development of new projects that address needs which were not evident in previous years. The College must balance the upkeep of established facilities with the creation of new ones that address perceived needs, provide

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competent staffing for all facilities, and improve the technical competence and awareness of the faculty, thus enabling them to integrate modern instructional technology into a diverse curriculum.

The following report updates the continual, substantial progress the College has achieved during FY 1999-2000, and outlines future directions and necessary resources, projects, and staffing. The budget requested for 2000-2001 is **\$573,125**.

For additional information about all projects described in this report, please contact Dr. Paul Resta, Director, Learning Technology Center, College of Education (resta@mail.utexas.edu).

Review

1. Projects of significant importance to student computing and worthy of special consideration:
The Mobile Computer Laboratory is reminiscent of the flexibility, reduced cost and space saving measures that many private companies have gained by the practice of "hoteling". This project is directly aligned with the college's vision to infuse the classroom with the latest in computing and telecommunications technology.
WINGS Online is using technology to support student interns at the point that they need it the most.
2. Opportunities for leverage w/ other campus units:
Web-based Student Services includes functions that would be useful university-wide. While initial trials in colleges may be necessary in the beginning, applications such as calendaring should be supported as a central function for all students, faculty and staff.
3. Impact on campus infrastructure (staff, network, computing resources, etc.):
Will wireless networks replace our current networks?
4. Significant trend features, if any (move away from or toward certain uses, changes in platforms of software, acquisition of unique computing capabilities, etc.):
The University is moving far beyond current physical space with mobile computer labs, wireless networks, videoconferencing and laptops for all final year students.
The continued trend to move support services to self-service options as seen in the web-based student services improves service delivery and satisfaction levels and increases the need for technology support positions.
5. Noteworthy items (could be anything salient):
Both the Laptop Computing and Mobile Computing projects are purely Macintosh projects. It would be interesting to know the percentage of Mac to PC in the K-12 market where these students will become teachers. Perhaps the next Mobile Lab should be PC and the Laptop Computing project could be partial PC as well.

COLLEGE OF ENGINEERING

Executive Summary

A matured vision and experience with Technology Enhanced Learning (TEL) initiatives are the focal point and impetus for this year's College of Engineering Vision Plan for Information Technology. The insight generated by acknowledging the roles of Information Technology (I/T) to enable Life Long Learning through conventional academic curriculum, continuing education, and K-14 outreach have been invaluable

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in working toward developing an infrastructure that also aptly supports research and administrative operations and facilitates corporate relationships.

Empirical understanding of the role of I/T in each of these venues is helping us to determine an optimal future and to align progress toward these goals purposefully with a Total Cost of Ownership (TCO) mindset. The Laptops for Learning Initiative, a voluntary laptop computer purchase program promoted through the College of Engineering, is but one of the tactics used to implement the spectrum of I/T computing solutions which range from enabling distributed learning to providing a robust set of application, instructional, collaborative, web, database and file services.

I/T efforts such as the campus license for National Instruments LabVIEW, multi-college AutoCAD license, UT System Microsoft licensing agreement, the Technology Classroom Committee and the ad hoc Help Desk coalition are greatly appreciated as they tangibly contribute to and align with College priorities. Forums, such as the Technology Dean's Working Group, have acted as a catalyst to identify key issues and forge I/T futures. These collective efforts provide an invaluable virtual infrastructure that sustains the front-line I/T efforts pursued from within the Engineering College.

The College of Engineering Vision Plan for Information Technology reflects, in the attached table, the priority projects desired for funding as a result of internal strategic planning and alignment with the University vision. The individual entries relate total budget requests and relevance to the overall mission along with numerous fundamental campus issues that should be addressed through collective efforts to fully implement the UT vision recommendations. As available, College funding will be committed to fulfilling the depicted projects. Alternate funding sources will be aggressively pursued to supplement the fee-based revenue and further progress toward achieving the identified goals. Any funding which ITAC could provide toward this objective will be greatly appreciated, and it is hoped that at least the top priorities will be adequately funded.

Review

The College of Engineering has submitted an extremely comprehensive plan for the projected use of funds available for IT support and development. A very apparent goal for the use of these funds is to bolster the accessibility and availability of the computing facilities, equipment and other resources within the department, all the while improving opportunities for research and academic excellence.

Paramount to accomplishing these goals is the importance of improving the network infrastructure within the 6 primary buildings used by the college. Many of the other suggested uses of funds depend heavily upon this overdue upgrade to the network. The College of Engineering is prudent to list this as "job one".

This Vision Plan takes into great consideration the need to leverage with several other departments on various projects. For example, the Wireless Pilot project notes the need to partner with ACITS, Fine Arts, ACES and the Business school. The Vision Plan is peppered with references to working with various departments, showing that the college sees itself very much as part of a large University and not an entity set aside from the whole.

A stated but underemphasized point in the plan on page 3 notes the need to provide tangibly beneficial IT services for administrative staff and research centers. Seeing the alarming rate of personnel turnover within the Austin IT community, this point should be taken with serious consideration.

It is worth noting that several of the Thrust Projects outlined in the report would have significant impact on accessibility for the mobility impaired users, for example, the @home Connectivity and the Live Distributed Learning projects. Overall, I found the report to be far reaching, reasonable, and suggestive of a department that's looking ahead with noted depth

COLLEGE OF FINE ARTS

Executive Summary

In October 1991, the College of Fine Arts completed an exhaustive, two-volume report on computing needs in the College of Fine Arts. This vision plan for computing was subsequently submitted to The University's Faculty Computer Committee (cf. *Faculty Computer Committee Report, 1992-93.*) The plan focused on teaching and research, citing specific needs for student microcomputer facilities, multimedia learning environments, research laboratories, computer workstations for faculty and staff, a College-wide network, and an image database project.

Using allocations from the Faculty Computer Committee and its own resources, over the past nine years the College has systematically completed (or currently has in progress) all of the initiatives cited in the original vision plan. Therefore, the College embarked on a new plan to address information and instructional technology needs. The following plan not only continues to address needed infrastructure enhancements but also incorporates specific projects suggested by the College faculty. This blend of College-level oversight and program specific projects is intended to provide a seamless and effective technology environment for College of Fine Arts students, faculty and staff.

With money remaining from previous ITAC allocations, several projects are already underway or will begin this fiscal year:

- An additional multimedia-capable classroom in the Winship building serving primarily Theatre and Dance Students. (estimated cost: \$55,000)
- A major renovation of an existing class piano laboratory that will upgrade the aging keyboards with current models and add equipment that will take advantage of web-based instruction methods. (estimated cost: \$132,600)
- Move various departmental holdings from slides and flat art to digital images suitable for technology classroom and web use. (estimated cost: \$73,000)
- Provide video acquisition and editing equipment for theatre students to facilitate stage directing classes. (estimated cost: \$11,300)
- Provide equipment needed to implement a digital darkroom for studio photography majors. (estimated cost: \$28,600)
- Provide equipment needed to prepare materials for the course Computer Image Development for Theatrical Designers and assist students working outside of class on scenic designs. (estimated cost: \$13,900)

Other ideas were submitted by the College faculty and certain improvements to the College infrastructure are required. We are requesting additional money to implement the following projects:

- Provide equipment needed to employ computer-aided design and computer-aided manufacturing techniques in the Art Design Program. (estimated cost: \$43,800)
- Implement improvements in the Vocal Arts Laboratory to allow interdisciplinary work between Music Vocal majors and Theatre Acting majors. (estimated cost: \$29,700)
- Upgrade existing computers in the Electronic Music Studios to current digital audio editing standards. (estimated cost: \$11,500)
- Upgrade existing computers (now three years old) in the Fine Arts Microcomputer Laboratory to current models. (estimated cost: \$34,000)
- Upgrade the College network backbone to gigabit technology. (estimated cost:\$40,000)

The College of Fine Arts 2001-2002 Vision Plan proposal is a request for funding to implement these five projects. Each project builds on the already established infrastructure and will enhance instructional

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technology for students in meaningful ways. The estimated combined cost of the projects (with the addition of \$10,000 for contingencies) is \$169,00.

Review

The recommendations in this plan seem to be justified if graduates are to keep pace with technological advances in their chosen fields. The changes should bring academic experience in line with professional standards and practices. This is invaluable as students prepare to move out of the University environment into careers. Requested upgrades to existing equipment, particularly the network backbone are simply required in order to provide support for continued advances.

Balancing the request for additional funding is the evident effort to increase capacity of existing space (remodeling to make room for the digital darkroom) and to share resources (Vocal Arts Lab Expansion).

GENERAL LIBRARIES

Executive Summary

The General Libraries long-term goals for information technology are:

- Pursue a vigorous program of teaching essential information skills required for success in the electronic environment to the entire UT Austin community.
- Establish the information and computing technology infrastructure critical to support UT Austin digital library services.
- Enhance UT Library Online with significant electronic information resources and services for UT scholars.
- Promote resource sharing and continue collaborative programs at the national, regional, state, and campus level in support of distance information-based services

Collaborative Learning and Wireless Technology in the Undergraduate Library: In support of the first goal, a vigorous program of teaching essential information skills, and to better serve the needs of University students, the General Libraries proposes to circulate wireless-capable laptop computers and to install a wireless network throughout the Undergraduate Library which will foster an environment appropriate to collaborative study in support of the University's evolving digital curriculum. \$91,000 is requested for this project.

Sci/Tech Electronic Information Center Enhancement: In support of the second goal, the Science/Technology Electronic Information Centers (Sci/Tech EICs) have proven to be a very popular and well-used service in the science libraries. Sci/Tech EICs support access to UT Library Online and specialized science information resources as well as support classroom instruction. Services will be enhanced through additional workstation capacity and infrastructural improvements. \$29,000 is requested for this project.

Review

Project 1

The first project is Collaborative Learning and wireless Technology in the Undergraduate Library. This project will benefit students and is eligible for ITAC funding. There is little doubt that students are using library resources and collaborating in ways much different than those envisioned when the Undergraduate Library was built. Wireless networks are a good way to break down arbitrary architectural barriers to enhance collaboration.

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Having a wireless network doesn't eliminate the need for network ports. Not all students will purchase the latest "standard" in wireless technology.

Wireless networks can provide good access while using non-digital library resources such as the map room, microfilm, and periodicals. Are there enough of these resources on the first and third floors of the Undergraduate Library to justify the project? Would PCL be a better first project?

Wireless can enhance collaboration. Students can meet and have their materials, data, and work available with them. For this the Undergraduate Library would be an ideal test case.

There maybe some concern about the number of students served by this project. I do not believe that anyone knows what the acceptance would be. I think this project will investigate the usage issue and should be included in a vision plan.

Basic software should be provided on the laptop but these machines should not be seen as desktop replacements. Not all software can be purchased or maintained. A possible vision is to use these machines as windows onto the Internet. These portable machines will access data and applications over the Internet. Software such as Windows Terminal Server and Citrix Metaframe provide access to remote resources and applications. Appropriate clients would allow access to software that the library would not have or could fund. The ACITS statistics group provides statistics software via the network. Appropriate use of the network would allow access to disk storage via the network on centralized servers and maybe even from their home machines. Efforts should go into making these connections possible.

I am not able to make any comments on the cost and implementation of the wireless network infrastructure. The cost of twenty five laptops is consistent a laptop having reasonable processor speed, reasonable screen size, reasonable amount of memory, a wireless network adapter and an extra battery.

Project 2

The second project addresses access for student that use the science libraries. This project is eligible for ITAC funding. Is there a way to use the technology in the first project in the EIC? Can wireless laptops bring the students closer to the resources, allow for better collaboration, and provide access to specialized software?

Life Cycle Methodology

Establish the desired replacement rate for desktops and servers. Does everyone who needs a computer have one? Know what the costs per year are. Establish what the costs of not having adequate equipment. Put it in the budget even if it is not funded just to let everyone know what the costs are.

GRADUATE SCHOOL OF LIBRARY AND INFORMATION SCIENCE

Executive Summary

The FY 2001-2002 Plan describes 8 IT projects that support GSLIS' goals and objectives. The first project group aims to improve technology enhanced learning and distance education. The specific projects include Web-based and multimedia enhancements to existing courses (\$56,207); Webcasting upgrade to computer classroom (\$23,492); and development of a Museum Image Collection using an image management system (\$80,000). The second project group includes infrastructure improvements and enhancing the current assets management process: Automated Equipment Inventory Management System (\$2,500); Dual-use Multimedia Lab Upgrade (\$19,176); Wireless Network for Classrooms and Computer Lab (\$5,750);

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Upgrade to Projection System in Computer Classroom (\$9,000); and Addition of Student-use Photocopier (\$4,320). The IT Vision Fund allocation request for FY 2001-2002 totals \$200,445.

Review

1. Projects of significant importance to student computing and worthy of special consideration:
While all of the projects delineated in the Vision Plan will enhance the use of technology by the students and faculty, both permanent and visiting; there are some items that are significantly important to the GSLIS mission. These are the Museum Image Management System, Web-casting Upgrade, the Dual-use Multimedia Lab upgrades and the computer classroom projector upgrade. Those projects will provide better access to the wide variety of materials in the archives of the GSLIS and will allow students and faculty to implement more web based courseware for the school. The digital archiving of materials found in the resources of the Perry-Castaneda Library the Art History Dept. and the College of Fine Arts has the potential to be quite valuable to UT Austin.
2. Opportunities to leverage with other campus units:
It is already clear that GSLIS intends to cooperate with the Perry-Castaneda Library, Art History and the College of Fine Arts with the Museum Image Management System project. The assumption is made, that for wireless network technologies, that GSLIS is availing themselves of the knowledge and practical experiences that have been acquired by the ACITS/TIS Networking group.
3. Impact on campus infrastructure:
The only negative impact this could have would be to the campus wide use of wireless technologies, if not implemented with the assistance of the ACITS/TIS Networking group.
4. Significant trend features:
The GSLIS is providing a valuable resource to UT Austin with the implementation of these proposed technology enhancements by providing better accessibility for both on and off-campus use of their vast resources.
5. Noteworthy items:
The use of media based training and education will allow more flexible schedules for some students, while potentially providing a consistently high quality of information to the students. The Museum Image Management System stands to provide a great resource, depending upon access restrictions, if any, to the university and the community has a whole.

SCHOOL OF LAW

Executive Summary

The School of Law aims to incorporate the appropriate information technologies into its teaching and research missions by pursuing the following long-term goals:

- Improve student access to computing resources.
- Develop and deploy local online resources in support of the School of Law's instructional programs and student services.
- Provide the computing infrastructure to take advantage of new information technologies.
- Provide instructional support in the effective use of information technology by students, faculty, and staff.

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- Enhance access to information resources available in and through the Jamail Center for Legal Research.

Fulfillment of these goals will be advanced through the following proposed projects:

- network connections for classrooms;
- multimedia projection facilities in large classrooms;
- closed-circuit television access for small classrooms/seminar rooms;
- course packet production and distribution on CD-ROM;
- computers for student organizations.

The proposed budget for these projects totals \$162,754.

Review

1. Projects of significant importance to student computing and worthy of special consideration

The 2001-2002 ITAC Vision Plan (the Plan) essentially proposes four things: 1) Development of technology enhanced classrooms, 2) Close-circuit television access, 3) Decreasing costs of student course materials by changing distribution to CD-ROM format, and 4) Life cycle funding for student organization computers.

The School wishes to increase its classrooms available with high-speed switched network access ports, multimedia projection abilities, and closed circuit TV accesses. They are a part their long term goals of providing computing infrastructure and instructional support for effective use of information technology by students, faculty, and staff.

Life cycle funding is a concern everywhere on campus, including student organizations. They traditionally use equipment that has been cycled down from faculty, staff, or computer labs. The campus funding mechanisms for student organization equipment is not clear to this reviewer.

2. Opportunities for leverage w/ other campus units

The proposed multimedia classrooms are consistent with other classroom renovations on campus. The costs of the renovations are high, but so are the benefits to the student's classroom experiences. These facilities could possibly be made available to other interested areas of campus provided scheduling services were established. Purchase discounts might be possible if a campus standard for equipment were established.

3. Impact on campus infrastructure (staff, network, computing resources, etc.)

- Network ports -- The network wiring for 22 classrooms may necessitate removal of old IBM Type 2 cabling which is no longer usable. While wireless is an option, classroom teaching would probably be better served through switched 100BaseT ports and Cat 5E cabling for speed and security.
- Multimedia Projection Classrooms -- Most all college plans are addressing these types of classroom facilities. Perhaps all the plans should be reviewed by the Technology Classroom Committee to see if purchasing discounts can be obtained and minimum standards established. Staffing issues appear to be addressed in their plans to reorganize and reassign staff to maintain the additional equipment.
- Close-circuit TV access -- The plan for implementing the access should have minimal impact on the campus infrastructure, but needs to be carefully planned and coordinated with campus satellite services to make the most of the new high definition television capabilities on campus. The access points might be planned in a manner that would also allow the multimedia classrooms to share the access for larger audiences.

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4. Significant trend features, if any (move away from or toward certain uses, changes in platforms of software, acquisition of unique computing capabilities, etc.)
CD-ROM course materials distribution rather than paper distribution. The change assumes all students have access to a computer to use the CD-ROM. It is clear the impact on materials saved and cost efficiency has been studied, but the impact to students is not as clearly defined.
The non-ITAC funded wireless access pilot project is part of a new trend on campus. Due to many possible conflicts regarding signal interference and security, this method of access needs to have a campus standard clearly defined before implementation is wide spread.
5. Noteworthy items (could be anything salient). The plan lists network connections and multimedia classrooms as separate items although they could be related. If the multimedia projection portion is not funded, it is unclear how the network connections will be used for online presentations. The classrooms may be other classrooms, which have older equipment that will meet minimal needs for classroom demonstrations. The installation costs for the multimedia classrooms and closed circuit TV access appear to be optimistic in regard to cabling and electrical costs.

COLLEGE OF LIBERAL ARTS

Executive Summary

The 2001-2002 Vision Plan for the College of Liberal Arts continues the tradition of promoting a broad range of department-centered projects along with proposals for key infrastructure improvements. The IT vision for the College continues to stress the development and deployment of leading edge technology enhanced learning environments. To this end funding is sought in the key areas of course development, technology classrooms, network infrastructure and staff support. The major innovation in this year's plan is found in the project proposal from Liberal Arts Instruction Technology Services. This is a request for \$300,000 in ITF funding to supplement College resources in the outfitting of a significant number of technology classrooms. This initiative is the highest priority for the College. The project calls for the introduction of standardized computing and display technologies – consistent with technology being introduced in the large auditoriums across campus under last year's ITAC funding – in all general-purpose classrooms in Jester and Parlin Halls.

Review

Anthropology:

Significant importance to student computing? These budget items will be used by numerous courses and represent an enhancement for student computing.

Opportunities to leverage with other departments? A number of these projects could use Blackboard or WebCT for their Web based course development.

Classics:

Significant importance to student computing? Used by a large number of students and courses and represent an enhancement for student computing.

Opportunities to leverage with other departments? Could use a large central data storage and backup system.

Significant trend features? Some of these projects are using FileMaker Pro. This database lacks the ability to easily exchange data with other databases and doesn't have the interface that allows 3rd party or

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user written programs to extract data from it. I would recommend they move to another database like Oracle, MS SQL Server, or MySQL.

French and Italian:

Significant importance to student computing? Several courses will benefit from this upgrade in technology.

Significant trend features? Innovative use of instructional multimedia.

Liberal Arts Instructional Technology Services:

Significant importance to student computing? A large number of students and courses will be affected by these projects and upgrades.

Opportunities to leverage with other departments? Could use a large central data storage and backup system.

Population Research Center:

Significant importance to student computing? Several sections will benefit from these upgrades and added redundancy.

Psychology:

Significant importance to student computing? Used by a large number of students and courses and represent an enhancement for student computing.

Opportunities to leverage with other departments: A number of these projects could use Blackboard or WebCT for their Web based course development.

Noteworthy Items? Replacing a nine-year-old VAX computer.

Notes: Other projects were mentioned in the "Liberal Arts Peer Review", but were not included in the "Summary of ITF Expenditures".

LYNDON B. JOHNSON SCHOOL OF PUBLIC AFFAIRS

Executive Summary

The Lyndon B. Johnson School of Public Affairs is a graduate component of The University of Texas at Austin. The mission of the School is to prepare graduates to shape and manage the public's business. From its inception, the LBJ School has offered an academically progressive program aimed at raising the level of preparedness for careers in government by integrating public policy theory and practice. As the student body has grown, the School has expanded the program options. Master's-level program options now include a regular master of public affairs program (full-time and part-time); a mid-career program; and eight joint degree programs with other departments and professional schools (the School of Law, Graduate School of Business, College of Engineering, Institute of Latin American Studies, Center for Middle Eastern Studies, Center for Asian Studies, Center for Russian, East European, and Eurasian Studies, and College of Communication). The School offers a Ph.D. program that provides interdisciplinary, doctoral-level training in policy research, analysis, and practice.

Our goal is to convert the School from a successful, highly respected school into a "national leader with an international reach." The School has created the Center for Ethical Leadership and the RGK Center for Philanthropy and Community Service, and has added a Technology and Public Policy program as part of

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our existing Policy Research Institute (which has an urban and international component). These two centers and technology program will strengthen curriculum offerings and professional opportunities in leadership and nonprofit management, benefiting current students and fostering continuous lifetime learning for LBJ School alumni.

Along with the rest of The University, the School is facing a future where external forces are constricting available funding at the same time as the demand for information technology resources is increasing. This situation demands innovation both for exploiting our current information technology resources and for identifying better methods for planning, acquiring and managing those resources.

Review

Projects 1 and 2 focus on completing an upgrade of classrooms into multimedia rooms. There is a definite benefit to students as computer and Internet content is added to curriculum. These two projects are worthy of special consideration. In order to maximize the use of such facilities the appropriate personnel need to be available.

Project 3 deals with network upgrades. It is not clear if these upgrades are addressing a current network problem or not. If current infrastructure is using shared hubs then use of switches can help in better bandwidth as well as security and thus they should be on the to do list of all the departments around campus.

Project 4 is significant in that it will provide the necessary equipment for the faculty to be able to develop interactive and Internet accessible content. Thus upgrading faculty and staff equipment should be considered as necessary for elevating the school's learning environment.

The multimedia classrooms could be leveraged on a wider basis if arrangements are made for others to use the classrooms when not in use by the school.

All these projects follow the trend towards multimedia rich class content.

These projects have no significant effect on campus infrastructure.

COLLEGE OF NATURAL SCIENCES

Executive Summary

The College of Natural Sciences is dedicated to using information technology to enrich the educational experience both of our majors and of the thousands of students throughout the university who take our courses.

We believe information technology should impact our students in the lecture halls, in our science labs, and in their dorm rooms. To this end, we must provide state-of-the-art networks, instructional computer labs, powerful server machines, and technology rich classrooms and laboratories. We must have a professional staff to support and maintain these facilities, and we must be constantly upgrading our hardware and software to keep it current. And, most importantly, we must give our faculty the support they need to revise and enhance their courses to take advantage of information technology.

Review

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This proposal describes a reasonable plan that focuses on expanding and maintaining the infrastructure of networks, equipment and technology classrooms in order to deliver IT curriculum to more students. New initiatives are not well described or detailed for adequate comment. The requested funding is well justified for a college of its size, curricular content and student population.

Comments on specific areas:

1. **Technology Auditoriums and Classrooms, Networking and Associated Electronics, Servers, Storage, and Backup:**
These are all necessary infrastructure requirements that serve as the foundation for developing and effectively delivering IT curriculum to students. This proposal does not detail the need for additional staffing to support and maintain these classrooms however, which I presume will be covered by increasing college IT fees. This infrastructure development will allow faculty to more easily deliver multimedia content which has the powerful potential to enhance the student learning experience in the classroom, and is well worth funding.
2. **Instructional Computer Labs:** This proposal does not elaborate on the function of the instructional computer labs, but I presume this is where IT curriculum development takes place and students do their work, thus impacting them directly. Need more details to comment adequately.
3. **Faculty Curriculum Development Projects:** Faculty IT curriculum development is an important endeavor that must be funded. IT curriculum makes use of the infrastructure that is being built, thus it must be funded likewise. It would have been helpful to see more details of specific proposed projects, equipment and personnel requirements – it is not specified how additional fees can expand and support new IT curriculum development, and how many projects plan to be developed. I imagine that this will be the area for future growth and increased funding needs.
4. **Portable Multimedia Equipment:** This is an important and necessary solution to providing delivery of IT curriculum in classrooms that have not been converted or upgraded.

SCHOOL OF NURSING

Executive Summary

The focus of the School's instructional technology (IT) goals and objectives, as revised for the next three years, are to encourage and facilitate the inclusion of nursing informatics concepts in the curricula. Further, we aim to promote the competent use of technology by faculty and student, preparing them to teach and practice nursing in the future health-care system. Primary among our objectives is to provide state-of-the-science technology for faculty and students, to improve the teaching and learning activities through the innovative use of technology, and to assist faculty and students to see technology as yet another tool to improve nursing practice, teaching, and research.

A major adjustment in these goals during the last revision has been to place more emphasis on nursing informatics concepts. Nursing informatics is the gathering, storing, and management of data, information, and knowledge in nursing. It entails the combination of nursing, information, and computer sciences. This is a relatively new field for nursing practice and education.

These projects were identified as areas to be addressed during the next academic year: 1) network augmentation and 2) large classroom audiovisual control system redesign.

Review

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The School of Nursing (SoN) has identified two projects to be addressed in the next academic year.

The first, network augmentation, is fundamental since efficient use of any other informational resource ultimately depends on the network infrastructure. Even short-term use of superior desktop compute power and other IT resources would be seriously undercut by inadequate network service. Consequently it is imperative that this service remains ahead of other considerations, and the SoN certainly seems to recognize this through its inclusion of the necessary support software and the focus of its full time support staffing on LAN administration.

The SoN vision of learning/teaching that can be independently conducted regardless of time or place should be an innovative and effective way to leverage limited faculty resources beyond the traditional campus classroom, or even the traditional clinical venue. The ability to reach practicing nurses in remote clinics via cyberspace is essentially dependent on maintaining adequate network performance, and these network needs must be supported in advance of the superstructure that will depend upon them. Expenditures in support of such leveraged use of resources should yield substantial benefits. It's certainly true that without such support there will be zero opportunity for any benefits.

The second project addresses classroom renovation. At first glance such a request may seem pedestrian, but its 'fit' with the underlying concept of the SoN vision is actually basic. One of the goals of the SoN is to promote technology use in learning and teaching. Ideally, this can be done to such an extent, that it becomes just 'another tool'. It's easy to say this. It's hard to do. It's very hard to do if faculty have to spend valuable time tinkering with collections of equipment, rather than keeping abreast of developments in the discipline of nursing. The SoN wants to rationalize the current collection of equipment so that professors can teach, rather than having to master a variety of classroom equipment.

Ideally, classroom technology should be as easy to use as the traditional chalkboard. This ideal will never be seen again, but it should be possible to take maximum advantage of 21st century advances in ergonomics so that SoN faculty can focus on teaching nursing technology rather than spending time nursing a collection of old teaching technologies. Over the years, computing technologies have become significantly more compatible and rational. This has led to increases in productivity. Providing a reasonably uniform suite of teaching technologies in a way somewhat analogous (and hopefully better) than the evolution of computing technologies holds the promise of liberating teaching innovation and productivity in a similar manner.

As in the case of networks, a certain amount of infrastructure must be in place. The presence of such an infrastructure is no guarantee of progress, but if it is not in place, no innovation can even occur. Finally, at a most basic level, this project may simply be worthwhile to eliminate the increasing costs of maintenance and repair of collections of old equipment. Further savings may occur if faculty can manage the technologies, rather than having to rely on staff support. Any savings can support the SoN primary mission.

COLLEGE OF PHARMACY

Executive Summary

This Vision Plan marks the tenth anniversary of such efforts at the College of Pharmacy. In 1991, two faculty members proposed the creation of four new computing facilities. The proposal was funded, and the College began its integration of computer technology into administrative, academic, and research functions.

Two factors strongly influence funding and utilization of computer resources for the College of Pharmacy. One is that the College has one of the smallest student populations on campus, limiting the amount of ITAC

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fees collected from the student body. In this regard, the increase in the minimum award has had a significant effect on funding for recurring expenses such as maintenance and supplies.

The second factor is the operation of two College of Pharmacy sites. In addition to the Austin campus, the UT Austin College of Pharmacy places students and faculty in San Antonio on the campus of the UT Health Sciences Center. The academic governance and funding for the San Antonio program originate in Austin. For this reason, distant students and faculty, and parallel computer and distance education facilities loom large in technological needs of the College. Furthermore, the addition of remote coursework is planned for the campus of UT El Paso in Spring of 2001 and eventually at UT Pan American. Few UT Austin colleges are as active in distance learning as the College of Pharmacy.

Because of the College's involvement in distance learning, faculty have embraced instructional technology with enthusiasm. While many faculty teach traditionally, using chalkboard and overhead transparency projectors, many others have incorporated PowerPoint presentations into virtually all classes. PowerPoint is an excellent tool for the typical outline-style content reinforcement for which it is employed. However, it is also a very capable container for digital video, graphics, sound files, and the like. College faculty use this capability because Pharmacy content—which incorporates chemistry, mathematics, physical assessment, patient care, and many other facets—demands it.

This Vision Plan discusses ongoing support of existing facilities as well as increased technology and support for both College and general-purpose classrooms. It also requests funding for an ambitious plan for conversion of an existing analog videotape-based to digital, web- and CD-based technology. The addition of web- (IP-based) videoconferencing technology to augment the T1-based videoconferencing capability already in existence is another major feature of this plan.

Review

The 2000-2001 College of Pharmacy (CoP) vision plan details a set of ambitious projects that will permit the college to digitally distribute its curriculum (\$135k), provide increased IP videoconferencing (\$50k) between the Austin campus and San Antonio campus, strengthen the college's ability to deliver audio-visual based education in its classrooms (\$120k); and enhance the CoP network infrastructure (\$130k). This project fit with the CoP's leadership in distance education and should enable it to expand its efforts to new sites as detailed in the proposal. Since detailed cost estimates were not included, the budgets provided appear to be general estimates of the financial resources required. Even with the rapid change in technology, it would helpful to have a more detailed breakdown in future proposals to understand better the project implementation.

1. Projects of significant importance to student computing and worthy of special consideration;

The digital conversion project appears very useful in providing curriculum to the current sites plus UTEP and potentially in the Rio Grande Valley. This project already has the infrastructure in place and provides the delivery of the content to students.

The audiovisual upgrades also appear to be very useful in enabling faculty to more effectively use instructional technology to enhance their classroom-based teaching.

2. Opportunities for leverage w/other campus units;

Several opportunities may be possible. The video streaming project may align with the Center for Instructional Technologies efforts in this area. I'm not sure what the current status is regarding the CIT's streaming media efforts but I think they might help. David is probably very familiar with these efforts. Also, for the instructional technology, I think there would be an opportunity to link with other classroom renovations and try to standardize on a compelling model (e.g., the ACES building).

3. Impact on campus infrastructure (staff, network, computing resources, etc.);

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There appears to be a potentially large impact on the campus network if the video streaming project goes online and additional off-campus sites are added. I think continued consultation with William Green from Networking Services would be very useful in this regard.

4. Significant trend features, if any (move away from or toward certain uses, changes in platforms of software, acquisition of unique computing capabilities, etc.);

I think the biggest trend would be regarding the type of technology use for video streaming and in the classroom renovations. For both projects, it would be useful to try to identify any emerging campus standards and try to follow them.

5. Noteworthy items (could be anything salient).

The new LRC manager appears to have helped the CoP make significant progress on several ongoing projects. However, on page 11 of their proposal, it appears that there are still significant unspent funds that could be applied to the proposed projects (\$36,687 in recurring funds and \$70,559 in project funds were carried over to 2000-2001). It would help to see how these funds are projected to be used in conjunction with the additional money requested this year.

THE SCHOOL OF SOCIAL WORK

Executive Summary

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

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

We are committed to our students and will continue to utilize our ITAC funds to provide them with the best possible technology and support for education and training. However, we need financial support that goes

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beyond our current allocation, to upgrade our facility, and provide us with renewable funding for support staff and equipment for ITAC eligible projects, as well as, faculty, staff, administration, and research. Our proposal is to improve our ability to produce and deliver information resources in our classrooms. We have 4 proposals eligible for ITAC funding and 1 non-eligible. They are listed in the table below.

Review

The School of Social Work has been resourceful in its use of campus-wide programs to stretch its IT resources. Recent upgrades have resulted in better quality networking and desktop computer systems for faculty, staff, and students. However, there is still a great deal of older, less capable, off-warranty equipment being used throughout the school. This vision plan includes several projects that would further reduce dependence these systems.

Funding for staffing seems low. A tight Austin IT labor market puts increasing pressure on departments trying to retain their experienced IT supports staff. The current staff have discipline specific skills that add to their value to the school. Their retention would seem worthy of additional resources.

1. Projects of significant importance to student computing and worthy of special consideration.
In moving to a life-cycle funding model for LRC and faculty computing the school is requesting the resources needed to get and keep the their desktop computing hardware in line with the requirements of general-purpose and discipline-specific software. The proposal to expand the capabilities of the Utopia Theatre and the other electronic classrooms is in response to student and faculty demand for improved access to A/V-enhanced instruction.
2. Opportunities for leverage with other campus units.
If the curricula development project is funded the staff at the CIT would be a good resource for the faculty charged with leading the class web site development effort.
3. Impact on campus infrastructure
While not detailed, there is a suggestion that the requested upgrades to the Utopia Theater could result in increased bandwidth requirements for video conferencing.
2. Significant trend features
The school is looking to invest considerable resources in developing Web-based instructional materials using Blackboard and courses.cc.utexas.edu.

APPENDIX A
Budget Requests by Unit
2001-2002

Academic Computing and Instructional Technology Services	\$2,097,460
UT Direct – ACS/ACITS	\$664,765
School of Architecture	\$390,000
School of Business	\$1,654,542
College of Communication	\$132,673
College of Education	\$573,125
College of Engineering	\$3,130,000
College of Fine Arts	\$193,978
General Libraries	\$120,000
Graduate School of Library and Information Sciences	\$200,445
Law School	\$162,754
Liberal Arts	\$2,045,808
LBJ School of Public Affairs	\$100,460
College of Natural Sciences	\$1,325,000
School of Nursing	\$237,400
College of Pharmacy	\$435,000
School of Social Work	\$229,900
Grand Total ITAC Requests	\$13,693,310

APPENDIX B
Summary of Individual Project Costs by Academic Unit
2001-2002

Academic Computing and Instructional Technology Services

Academic Computing - Customer Support Individual Projects	
UT Knowledge Base-Proof of Concept	\$52,000
Training Services MTF Lab Refit	\$60,000
Web Based Survey and Reporting Service Information Exchange	\$37,435
ACITS Advanced Research Application ASP	\$8,275
Multimedia Content for IT@UT	\$17,750
Web Testing Lab	\$12,500
Web Content Management Pilot	\$50,000
	\$237,960
Academic Computing - System Services Individual Projects	
Cisco router and wireless for COM building	\$100,000
Life cycle funding for COM infrastructure servers	\$200,000
Meta directory projects (institutional data)	\$125,000
Active Calendaring	\$100,000
Enterprise Management tools	\$75,000
Exchange collaboration services	\$14,500
Security and privacy services	\$110,000
Oracle reliability	\$300,000
Separating Web content from form pilot	\$15,000
Advanced Web publishing	\$100,000
Upgrade Cold Fusion Services	\$20,000
	\$1,159,500
Telecommunications and Networking Individual Projects	
Upgrade of Campus Cable System	\$70,000
Internet Telephony Infrastructure	\$150,000
Core Router/Switch Upgrades	\$250,000
Mail Server Upgrade	\$50,000
ATM Investigation	\$50,000
Multicast Investigation	\$0
Network Authentication	\$50,000
Video Conferencing Equipment	\$50,000
Wireless Technology Evaluation	\$30,000
	\$700,000
TOTAL	\$2,097,460
UT Direct – ACS/ACITS	
CPU Upgrade	\$250,000
CPU Maintenance	\$15,000
System Software Licensing	\$75,000
UT Direct Information Specialist (.5 FTE)	\$19,000
Marketing UT Direct Infrastructure and services	\$5,000
Staff Salaries	\$194,765
Blackboard Software Annual License	\$56,000
Calendar	\$50,000

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TOTAL	\$664,765
School of Architecture	
Network Upgrade – Phase I	\$200,000
Large Scale Imaging Facility	\$40,000
Computer-Aided Design Studio	\$35,000
Digital Archive Project	\$30,000
Cyclical Upgrade of Equipment	
Computer-Aided Teaching Facility	\$50,000
Computer-Aided Design Studios	\$35,000
TOTAL	\$390,000
McCombs School of Business	
Windows 2000 / Exchange 2000 Improvements	\$299,204
Help Desk Improvements	\$167,508
Student Lab Improvements	\$15,600
Data Warehousing Project	\$234,758
Multimedia Upgrades	
Hire a Dedicated Security Manager	\$67,560
Upgrade and Consolidation of Production Servers	\$562,014
Completion of Network Wiring Upgrades	\$210,000
Windows Terminal Server Project	\$53,265
Wireless Networking Project	\$4,633
Development / Testing Lab	\$78,99
Itanium Project	\$40,000
TOTAL	\$1,654,542
College of Communication	
Switched Network Infrastructure Upgrades	\$33,000
Communication Joint Use Facility Contract and Upgrade	\$38,528
Communication Digital Library Maintenance	\$42,025
Wireless Network Infrastructure	\$19,120
TOTAL	\$132,673
College of Education	
Faculty Technology Integration/Web-based Course Support	\$41,000
Web-based Student Services	\$36,294
Enhancing Teacher Education with Laptop Computing	\$250,000
Videoconferencing from Professional Development Sites	\$15,810
WINGS Online	\$167,000
Mobile Computer Laboratory	\$44,994
Student Electronic Field Production Units Utilizing Digital Video	\$7,635
Expanded Wireless Networking in SZB	\$10,392
TOTAL	\$573,125
College of Engineering	
Network Connectivity	\$530,000
Wireless Project	\$25,000
TEAM Focus Center	\$80,000

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Active Directory Services	\$0
Universal File & Web Services	\$500,000
Desktop Teleconferencing	\$30,000
Live Distributed Learning	\$750,000
Multimedia Teaching Podiums	\$900,000
Handheld Wireless	\$25,000
Studio Classroom	\$230,000
Real-world Classroom	\$60,000
TOTAL	\$3,130,000.00

College of Fine Arts

Computer-aided design and manufacture for Design Program	\$43,770
FAML Workstation Upgrade	\$34,044
Gigabit Network Backbone Upgrade	\$40,000
Dean's Reserve	\$35,000
Vocal Arts Lab Expansion	\$29,660
Electronic Music Studios Digital Audio Workstation Upgrade	\$11,504
TOTAL	\$193,978

General Libraries

Collaborative Learning and Wireless Technology in the Undergraduate Library	\$91,000
Sci/Tech Electronic Information Center Enhancement	\$29,000
TOTAL	\$120,000

Graduate School of Library and Information Sciences

Technology-enhanced learning and distance education.	
Digitized Materials for the Practice Cataloging	\$56,207
Webcasting Upgrade to Computer Classroom	\$23,492
Museum Image Management System	\$80,000
Infrastructure improvements and assets management	
Automated Equipment Inventory Management System	\$2,500
Dual-use Multimedia Lab Upgrade	\$19,176
Wireless Network for Classrooms and Computer Lab	\$5,750
Upgrade to Projection System in Computer Classroom	\$9,000
Student-Use Photocopier	\$4,320
TOTAL	\$200,445

Law School

Network connections for classrooms.	\$3,650
Multimedia projection facilities in large classrooms.	\$100,905
Closed-circuit television access for small classrooms/seminar rooms.	\$6,300
Course packet production and distribution on CD-ROM	\$14,399
Computers for student organizations.	\$37,500
TOTAL	\$162,754

Liberal Arts

The Candomblé Interactive CD-ROM Series	\$22,007
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Web-based Course Materials for AMS 310	\$12,165
Portable Computer Projection System.	\$8,000
Web-Based Exercise and Content Modules	\$20,840
Multimedia Resource Center	\$61,882
Archaeology Computer Laboratory	\$16,818
Linguistic Anthropology Laboratory	\$41,546
Physical Anthropology Computer Laboratory	\$68,415
Re-Imaging Pre-modern Japanese Fashion	
The World of Japanese Animation: New Technology Resources	\$7,880
Annotated Clickable Maps of Asia	\$5,679
Creation of an On-line Conjugation Dictionary	\$9,380
Re-Imaging Pre-modern Japanese Fashion:	\$7,880
Classics Digital Instructional Materials Project	\$144,603
Multimedia Classrooms and Projection Systems in Classics	\$177,350
Install computer projectors and upgrade server for lab in BRB	\$43,400
Upgrade PCs for third floor (CARE) computer lab in BRB	\$12,369
Computer projector and document camera for one classroom	\$12,100
Blyth/Kelton project:	\$103,693
Raffa project:	\$4,703
Bizer's project:	\$4525
Administrative upgrade	\$11,300
Computer Assisted Assessment	\$60,810
Curriculum Reform: Pedagogical Applications of the Digital Library	\$51,772
Classroom Technology Upgrades in Parlin and Jester Halls	\$300,000
Introduction to Language: An Interactive Journey	\$43,872
Grammars of the Indo-European Languages Project	\$38,294
Jewish Languages: An Annotated Bibliography	\$13,500
The Buena Vista Baghdad Club: Desert[ed] Tunes	\$37,486
Hebrew Via Popular Culture	\$24,436
Continued Support of Population Research Instructional Lab	\$142,000
Facilities Upgrade and Expansion	\$133,000
Microscope Image Acquisition System.	\$43,000
Computer Writing and Research Lab	\$308,014
Undergraduate Spanish Language Batts 115	\$26,889
TLC Computing Infrastructure Support	\$26,200
TOTAL	\$1,921,587
LBJ School of Public Affairs	
Complete facility retrofitting and integration of new equipment	
Wasserman Media Room	\$56,500
Upgrade computer projection and control equipment classroom	\$34,100
Continue upgrade of network infrastructure.	\$9,860
TOTAL	\$100,460
College of Natural Sciences	
Technology Auditoriums and Classrooms	\$415,000
Instructional Computer Labs	\$360,000
Faculty Curriculum Development Projects	\$250,000
Networking and Associated Electronics	\$150,000

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Servers Storage and Backup	\$100,000
Portable Multimedia Equipment	\$50,000
TOTAL	\$1,325,000
School of Nursing	
Infrastructure Augmentation	\$38,300
Large classroom audiovisual control system redesign	\$199,100
TOTAL	\$237,400
College of Pharmacy	
Conversion to digital distribution of video-based content.	\$135,000
IP-based videoconferencing capability for Austin and San Antonio campuses.	\$50,000
Audiovisual upgrade of general purpose and departmental classrooms.	\$120,000
Upgrade ethernet network.	\$130,000
TOTAL	\$435,000
School of Social Work	
IT equipment in 6 classrooms and Utopia Theater	\$114,700
Life cycle equipment and support	\$53,300
Funding for faculty release time	\$35,000
Video taping editing and production equipment	\$26,900
TOTAL	\$229,900

