

2000-2001 College of Pharmacy Vision Plan

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Vision Plan 2000-2001

Executive Summary:

The College of Pharmacy has been engaged in writing comprehensive technology Vision Plans since the idea was first promoted at UT-Austin in 1991. In that year, two faculty members proposed an ambitious plan to bring four new computing facilities to the College of Pharmacy. The Vision Plan was awarded enough university and matching funds to bring Pharmacy into state-of-the-art computing for research and curriculum support.

The challenge for the College of Pharmacy has been to maintain, upgrade and expand our facilities and services at this high level *at two locations* while assessing ITAC and other fees from a very small student population. Regular, recurring ITAC fees (approximately \$27,000) mainly cover hardware maintenance agreements. The Pharmacy-assessed Instructional Technology Fee funds four of eight technical personnel titles and Learning Resource Center M & O. All other expenses for upgrades, new hardware and software, maintenance agreements, network improvement and expansion, room renovation, expansion of services and support, new staff, student labor, distance learning support, etc., must come from non-fee sources. Occasionally, the College receives a lump sum of capital equipment support from the ITAC committee. This support, when received, has been a critical element in the quest to meet our annual technology goals. Other revenue sources required to implement our technology plan include University funds, College funds, external funds and equipment grants, and allowable revenue-generating endeavors.

IT Plan for 2000-2001:

Instructional Technology for the College of Pharmacy in the new millennium focuses on a plan for continual upgrade in key IT areas. Computers in student labs are now replaced in cyclical fashion and a large remodeled high tech classroom is also maintained and upgraded annually to maintain it in state-of-the-art condition. Mobile multimedia equipment carts will be upgraded in cyclical fashion as well. The data network in the College will transition to 100-Base-T over the next 24 months. A second distance education classroom is slated for a major renovation. Digital capture and editing of live courses for distribution is a pilot project that will begin this year. Finally, funding is allocated for maintenance of our Unix lab, faculty multimedia development projects and additional staff support.

The College supports eight technology-related staff positions, and houses four computer labs and two distance learning classrooms. Three additional classrooms in the College are used for general purpose. A third distance learning classroom is located in San Antonio.

The projects proposed for 2000-2001 in summary form is the following:

· Classroom renovations.....	\$200,000
· Network expansion.....	\$50,000
· Computer hardware and software upgrades.....	\$100,000
· Digital video editing equipment.....	\$15,000
· Teaching Academy.....	\$8,000
· Web and multimedia-based development support and training	\$10,000
· Molecular modeling laboratory maintenance support.....	\$10,000
· Upgrade of mobile multimedia carts.....	\$10,000

Vision Plan Status Report for 1998-1999

The College's technology plan last year was fulfilled to a significant degree. Those projects not completed are waiting on funding.

A. Classroom renovations for PHR 4.114 and PHR 2.116

Target audience: students and faculty

Funding sources: Institutional funds, ITAC special allocation

Status: Project is in planning stage.

B. Data network upgrade to 100-Base-T and video network upgrade to fiber optics

Target audience: students, staff and faculty
Funding source: ITAC
Status: Initial purchases made; plan in progress.

C. Computer hardware and software upgrades

Target audience: students
Funding sources: ITAC, ITAC special allocation, Pharmacy Instructional Technology Fee
Status: **Completed.** 27 new computers were obtained, enhancements were made to the distance education classroom to keep it state-of-the-art, software upgrades and enhancements were purchased resulting in the upgrade of approximately 1/3 of LRC equipment at an approximate cost of \$100,000.

D. Upgrade of mobile multimedia carts

Target audience: faculty and students
Funding sources: ITAC, College funds
Status: **Completed.** Three data projection units were purchased this year to replace older models and three G3 laptops and one PC laptop were obtained for use on carts for classrooms at a cost of approximately \$20,000

E. Multimedia and web-based courses material support

Target audience: faculty and graduate students
Funding sources: Academic Development and Teaching Academy funds
Status: **Completed.** \$20,000 in multimedia development funds was dispersed via competitive proposals within the College.

F. Faculty training for use of WebCT

Target audience: faculty
Funding source: in-house support
Status: **Completed.** Approximately 15% of teaching faculty received the training.

G. Staff expansion for computing, web and network support

Target audience: students, faculty and staff
Funding source: Pharmacy Instructional Technology Fee
Status: On hold, as of September 1999

H. Video-on-demand access of pre-recorded courses and training pilot

Target audience: local and Continuing Education students
Funding sources: grants, ITAC special allocation
Status: On hold

I. Molecular modeling laboratory maintenance support

Target audience: students
Funding source: ITAC
Status: **Completed.**

Facilities and Staffing

The College of Pharmacy technology facilities include an SGI computer laboratory, two microcomputer laboratories, an instructional development laboratory, a media library, two distance learning classrooms, a multimedia storage facility and a television control

room. Additionally, the Learning Resource Center houses seven staff in its administrative facilities. The technology staff of the Learning Resource Center include:

Manager – Directs the Learning Resource Center
Senior Systems Analyst – Network and microcomputers
Senior Systems Analyst – Web and multimedia development
Development Researcher – Technology fundraising
Administrative Associate – Media library and office management
Systems Analyst – Computerized audiovisual systems support
RTV IV – Instructional television coordinator

The College also supports a Senior Systems Analyst who is responsible for administrative computing.

Another distance learning classroom and computer lab is located at the McDermott Building at UTHSCSA. The distance learning classroom is staffed by the Center for Distance Learning and Telehealth. The facility is used by other departments and programs when not being used by The UT College of Pharmacy. The Division of Pharmacotherapy covers most of the cost for equipment maintenance, repair and replacement. The student computer laboratory is maintained on a part-time basis by an Administrative Assistant in the Division of Pharmacotherapy who received special training. The cost of maintaining the facility is shared by the Division of Pharmacotherapy and the Learning Resource Center.

Proposed Projects for 2000-2001

Long-range planning issues for IT in the College of Pharmacy include life cycle funding for administrative computing; restructuring the LRC to reflect new technical challenges and skills necessary in our changing technology landscape; retraining College administrative personnel and faculty to more fully utilize web technologies; re-evaluating current technology services; investing in a growing data and video network; and planning for the technical and training needs of faculty to adjust to new ways of presenting the curriculum. Finally, the College must plan for the renovation of four general purpose classrooms and one distance learning classroom.

- ***Classroom Renovations***

The distance education classroom (PHR 4.114) is in great need of upgrade and renovation to relieve the pressing load on PHR 3.106. Additionally, if classroom PHR 2.116 becomes Pharmacy-controlled, it too will require some enhancements for maximum flexibility, including the addition of distance TV capabilities, microphone enhancements and upgraded LAN wiring.

Cost: \$200,000

Audience: students and faculty

- ***Network Upgrade***

The College's network is being upgraded to 100-base-T over a 24-month period. In the ethernet wiring project of 1995, the LRC took into account this eventual upgrade need and used the required Category 5 wiring, state-of-the-art switches, and fiber optics running from the College of Pharmacy to the campus network backbone. Costs include new outlet inserts, new switches, patchcords and installation costs. Additionally, two computer labs require updated LAN wiring from Cat 3 to Cat 5.

Cost: \$50,000

Audience: faculty, staff and students

- ***Digital Video Editing Equipment***

Demands in the College for editing capabilities continue to grow with the addition of videotape-based distance programs in CE and TxPharm (a non-traditional Pharm.D degree program). Investments in a system now will help in the quest to deliver quality videotaped courses to students today, while preparing for the eventuality of streamed digital video in the near

future.

Cost: \$15,000

Audience: special program faculty and students (CE and TxPharm)

· ***Computer Hardware and Software Upgrade***

The College's computer upgrade policy for student laboratories has been to upgrade at least one third of the student and Learning Resource Center computers each year to prevent the entire computer inventory from being totally out of date in three years. Thirty-five computers need to be upgraded this summer including three in the computer lab in San Antonio. Specialized software upgrades will need to be purchased for student lab computers. Also the multimedia software collection is in need of an update at a cost of \$5,000.

Cost: \$100,000

Funding: ITAC, ITAC special allocation, Pharmacy Instructional Technology Fee

Audience: students primarily and teaching faculty

· ***Annual Teaching Academy***

An annual Teaching Academy for Multimedia in Pharmacy Education will be held again this year, bringing training in the latest technologies for instruction to Pharmacy faculty from all over the world. The Academy benefits the participants but also hones the skills of the instructors (faculty and staff) from the College of Pharmacy at UT-Austin who can then teach these skills to other faculty within the College.

Cost: \$8,000

Audience: pharmacy faculty from UT-Austin as instructors; pharmacy faculty from U.S. and around the world as participants

· ***Faculty Multimedia Development Support***

For the first time, competitive proposals for multimedia development were solicited within the College and \$20,000 in funding was awarded. This year, the project will be renewed at half the amount.

Cost: \$10,000

Audience: faculty

Funding sources: Academic Development Funds, Teaching Academy Funds

· ***Molecular Modeling Teaching Laboratory Maintenance Support***

As part of the Education Component of the College of Pharmacy's Vision Plan, we have established a Molecular Modeling Teaching Laboratory. Matching funds for this unique facility were obtained through a grant from the National Science Foundation. One objective of this laboratory is to provide a facility in which computer graphic visualization and manipulation of molecular structures can be used to enhance the teaching of chemical and pharmacological concepts related to molecular structure. Another objective is to provide a facility wherein students can gain hands-on experience in using computational chemistry software useful for understanding chemical behavior and drug design strategies. By providing state-of-the-art hardware and software, we not only accomplish these objectives but also stimulate interest in research careers and prepare students to use the hardware and software they would actually encounter in professional environments. We are requesting funds for hardware and software maintenance.

Audience: students

Funding: ITAC Fee

Cost: \$10,000

· ***Upgrade of Multimedia Computer Carts***

The College utilizes mobile multimedia carts containing one or more of the following: data and video projectors, laptop computers, VCRs, CD-ROM drive, Zip Drives or extra monitors. One third of the carts are upgraded annually.

Target audience: faculty, students

Funding: ITAC, College funds

Cost: \$10,000

College Technology Funding Overview and Life Cycle Methodology

Funding Sources:

Technology funding sources come from ITAC fees, Pharmacy Instructional Technology fee, College funds, University funds and grants.

Student ITAC fees pay for life cycle funding for academic computers in Pharmacy computer labs. Research funding pays for computers in the research labs, for faculty and for some staff. College funds pay for staff computers in the Dean's office. Division M & O is used to fund some staff computers. With limited College resources, administrative computers have not been upgraded on a specific schedule. However, this is changing. Several administrative divisions in Pharmacy such as the Dean's office are adopting a life cycle funding plan for computers.

Appendix I

Total IT summary expenditures report:

Technology staff salaries including administrative technology staff (Funding sources: Pharmacy instructional technology fee, College funds)	\$275,782
Work-study and part-time assistants (Funding sources: Pharmacy Instructional Technology fee, Digital TV account)	\$13,500
Distance education programs (Funding source: Digital TV account)	\$30,000
Equipment, maintenance, repair and software expenditures (approx.) (Funding sources: ITAC, Digital TV, Pharmacy instructional technology fee, grants, College funds, earned-income funds)	\$100,000
Facilities renovations (avg. over four years) (University institutional funds, College funds, ITAC funds, Pharmacy Instructional Technology fee, earned-income funds, grants)	\$125,000
Total yearly expenditures:	\$544,282

Appendix II

College network infrastructure status:

100% of offices, research laboratories and computer labs are wired for 10-base-T or 10/100-base-T ethernet. Additionally, we support 144 outlets for DHCP mobile computing. At this time, newly purchased 100-base-T hubs will allow a migration to the higher bandwidth.

Fiber connections from our television control room to the NOC will be added this year in addition to the cable broadband already available.

College technology classroom status:

The College has three technology-based classrooms:

PHR 3.106 – 136-seat state-of-the-art distance education classroom

PHR 4.114 – 40-seat distance education classroom (in serious need of upgrading)

PHR 2.116 – 23-seat general purpose computer teaching classroom

As mentioned earlier, the College built another state-of-the-art distance education classroom in the McDermott Building at UT Health Science Center-San Antonio (UTHSCSA). The College of Pharmacy has a joint degree program with UTHSCSA.