College of Arts & Sciences
Technology Plan
2004-05

Section I: Mission and Scorecard

The mission of the College of Arts and Sciences is to improve life in the Commonwealth and particularly in the greater Louisville urban area, creating knowledge through its research, sharing knowledge through its teaching, and guiding all its students to realize their potential. We believe that an excellent education in the liberal arts and sciences is the best preparation for life and work in a world of increasing diversity and ever-accelerating change because it prepares our graduates to be informed and critical thinkers, creative problem-solvers, and confident communicators. Our students learn by doing: They conduct research and express their creativity, include ethical considerations in their thinking, and experience the world from the perspectives of other cultures. The College brings the heritage of the intellectual tradition to bear on the challenges of the future.

University of Louisville
1999-2008 Indicators of Progress for Excellence

University of Louisville - College of Arts & Sciences

I. Educational Experience

Create a responsive, challenging, and supportive educational environment characterized by high expectations, respect for diversity and intercultural understanding, and engaged and purposeful learning.

		Baseline	Goal		
		1999	2002	2004	2008
1	Average ACT scores for all entering freshmen (S: I-EM-1a)				
2	Number of entering freshman students with ACT scores greater than 27 (S: I-EM-1a)				
3	Number of entering freshman students in upper 10% of class (S: I-EM-1a)				
4	Year-to-year first-time freshman retention rate (G: I-EM-1)	67.6%	67.6%	70.0%	70.0%
5	Number of undergraduate students (S: I-EM-1a)	7,974	7,824	7,753	7,674
6	Number of graduate students *(excludes postdoctorate students)* (S: I-EM-1b)	616	674	678	680
7	Number of professional students (S: I-EM-1b)				
8	Number of doctoral graduates (S: I-R-2b)	29	30	33	40
9	Number of disciplines graduating doctoral students (G : II-AC-1)	7	7	7	9
10	Six year graduation rate - all entering first-time, full-time bachelor's degree-seeking freshmen (G: I-EM-1)				
11	Retention rate of Pathways students (S: I-EM-1a) NA				
12	Number of residential students (G: I-EM-1)				
13	Number of international students (S: I-AC-1b)				
14	Number of international graduates in off-site programs (S: I-AC-1b)	0	0	0	0
15	Number of students studying abroad (S: I-AC-1b)				
16	Number of faculty traveling abroad for teaching or research (S:1-AC-1b)	58	58	58	58
17	Number of undergraduate students involved in research or creative activity as part of investigative teams (S: I-R-2a)	288	300	325	350
18	Number of students enrolled in Honors courses (S: I-AC-2b)				
19	Order of the Coif (Brandeis School of Law) (S: II-LS-1a)				
20	Phi Beta Kappa Chapter (Arts & Sciences) (S: II-AC-1b)	Not Achieved	Not Achieved	Not Achieved	Achieved
21	Number of students receiving national awards and / or national recognition (S: II-AC-1b)	21	23	25	30
22	Total student scholarship awards (S: I-EM-1a)	$8,146,922			
23	Professional advisor / undergraduate student ratio (S: I-AC-2a)	1:570	1:500	1:400	1:300
24	Percent of full-time faculty (with rank of Professor through instructor) with terminal degree (G: I-AC-1)	95.3%	95.0%	95.0%	95.0%

25	Number of students per full-time faculty (S: I-AC-1a)	29.5	29.5	27.5	25.5
26	Percent of senior faculty teaching lower division courses (S: I-AC-1a)	47.0%	47.0%	47.0%	47.0%
27	Percent of student credit hours produced by part-time faculty (S: I-AC-1a)	26.0%	25.0%	25.0%	25.0%
28	Cumulative number of Eduprise courses (S: I-AC-1a)	88	90	95	100

(16) *Total number of trips for 1999-2000 = 84*

II. Research, Creative and Scholarly Activities

Concentrate energy and resources to advance to national prominence in areas of programmatic strength identified in the Challenge for Excellence.

		Baseline 1999
29	Total number of grants and contracts funding proposals submitted (G: II-R-1)	111
30	Total number of grants and contracts awarded (G: II-R-1)	64
31	Total grants and contracts--dollar amount received (excluding financial aid) (G: II-R-1)	$4,285,61
32	Federal funding awards (excluding financial aid) (S: II-R-1a)	$3,315,63
33	Total publications in refereed journals (S: I-R-1a)	250
34	Number of refereed presentations and / or papers sponsored by national organizations (S: I-R-1a)	250
35	Number of refereed exhibits, artistic performances, etc. (S: I-R-1a)	68
36	Nationally recognized academic programs (G: II-R-2)	0
37	Number of academic programs nationally ranked in first quartile of programs ranked (S:II-AC-1b)	1
38	Number of faculty receiving/holding national awards and / or national recognition (S: II-AC-1b)	17
39	U.S. Patent applications filed (G: II-R-4)	1
40	U.S. Patents issued (G: II-R-4)	0
41	Licenses / options executed (G: II-R-4)	0
42	Business start-ups (S: II-R-4a)	0
43	Businesses incubated (S: II-R-4a)	
44	License income received (G: II-R-1)	$0
45	Associated Research Funding (Grants and contracts) (G: II-R-1	$0
46	Invention disclosures received (G: II-R-4)	6
47	National Institutes of Health (NIH) Cancer Center Recognition (G: II-R-3)	
48	Membership in the Association of Research Libraries (G: I-LIBS-1c)	
49	Library Volumes (S: I-AC-1c)	
50	Number of Endowed Chairs and Professorships (S: II-HR-1a)	3
51	Number of faculty on sponsored research (S: I-R-1a)	69
52	Number of students on funded research (S: I-R-2a)	32

(32) *Baseline 2000 as provided by VPR*

III. Accessibility, Diversity, Equity, and Communication

Develop a seamless system of access and create a culture that promotes and supports race and gender diversity, inclusivity, equity, and open communication.

		Baseline 1999
53	Number of full-time tenured and tenure track women faculty (S: III-HR-1a)	85
54	Number of full-time tenured and tenure track African-American faculty (S: III-HR-1a)	20
55	Number of full-time African-American professional / administrative staff (S: III-HR-1a)	4
56	Average ACT scores for entering African-American freshmen (S: I-EM-1a)	
57	Year-to-year retention rate of first-time African-American freshmen (G: I-EM-1)	
58	Year-to-year retention rate of African-American Pathways students (S: III-EM-1a)	
59	Six year graduation rate of first-time, full-time, bachelor's degree-seeking African-American students (G: I-EM-1)	
60	Number of African-American undergraduate students (S: III-EM-1a)	1053
61	Number of African-American graduate students (S: III-EM-1a)	34
62	Number of African-American professional students (S: III-EM-1a)	

IV. Partnerships and Collaborative Programs

Encourage inter-departmental and inter-unit collaboration in support of interdisciplinary teaching, research and service; cooperate with external agencies and other institutions of postsecondary education to leverage the resources of the university and its partners for mutual benefit.

		Baseline 1999
63	Number of students in collaborative and joint educational programs (S: IV-R-1a)	136
64	Number of interdisciplinary research projects (S: IV-R-1a)	82
65	Number of research projects that support economic development (S: IV-R-1a)	11

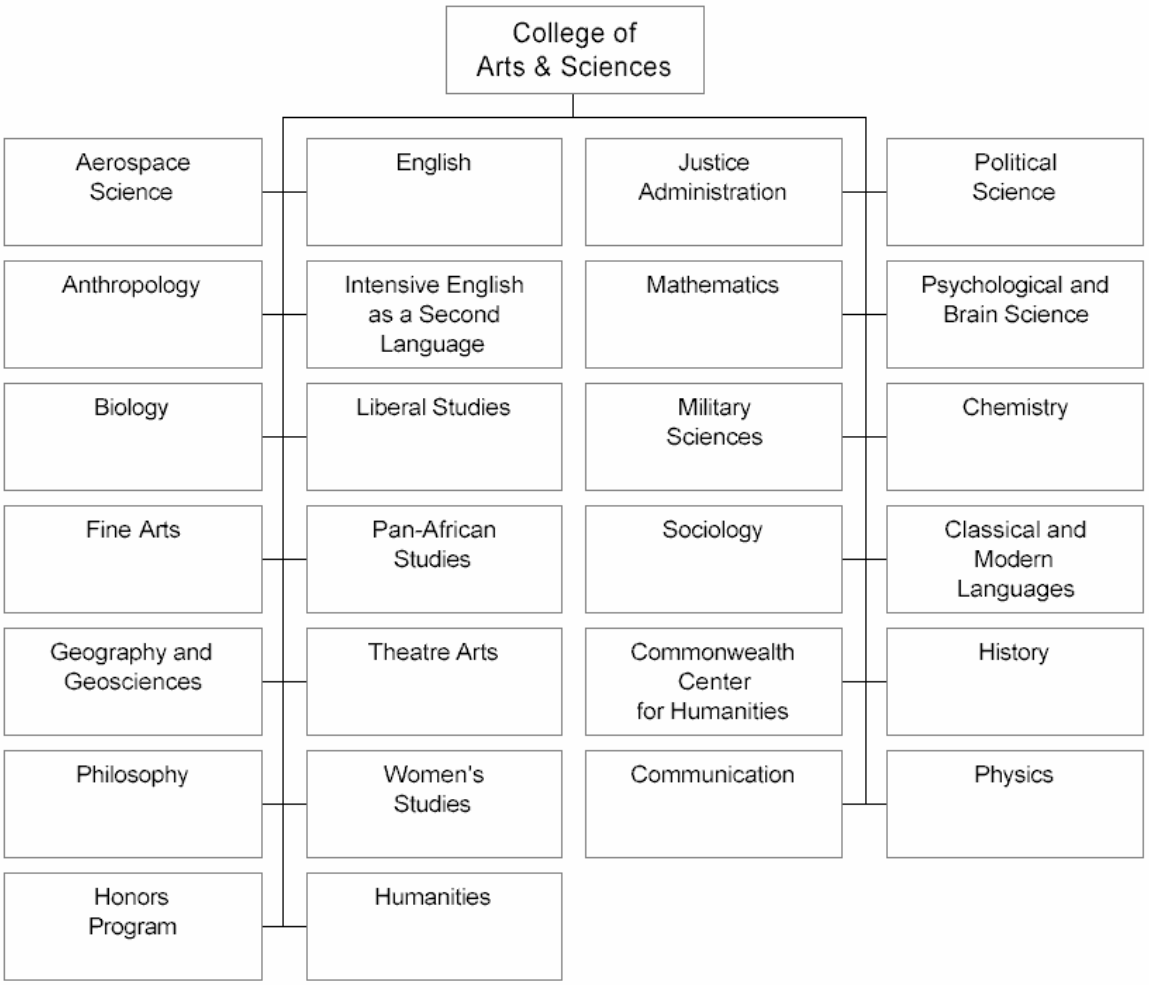
V. Institutional Effectiveness of Programs and Services

Improve the effectiveness and accountability of programs and services in fulfilling the mission and vision of the university and communicate its successes within the university community and to the public-at-large.

		Baseline 1999
66	Total endowment (G: II-ADV-2)	$31,296,03
67	Total Philanthropic Support (outright gifts & pledges) (G: II-ADV-2)	
68	Cumulative number of Department Chairs and/or members of leadership teams participating in leadership training and skill development programs (S: II-HR-1a)	4
69	Pass rates on licensure exams (S: V-AC-1a)	
70	Percent of programs accredited (accredited / eligible) (S: V-AC-1a)	67.0%
71	Salary catch up: Benchmark institution median difference in faculty salaries (G: V-HR-1)	
72	Salary catch up: Benchmark / Market median difference in staff salaries (G: V-HR-1)	
73	QMS survey - overall impression of unit by continuing students - mean response (S: V-AC-1a)	3.08
74	QMS survey - overall impression of unit by graduating students - mean response (S: V-AC-1a)	3.4
75	QMS survey - overall impression of unit by graduates - one year out - mean response (S: V-AC-1a)	
76	QMS survey - overall impression of unit by alumni - mean response (S: V-AC-1a)	
77	QMS survey - overall impression of unit by faculty - mean response (S: V-AC-1a)	
78	QMS survey - overall satisfaction of unit by staff - mean response (S: V-AC-1a)	
79	QMS survey - overall impression of unit by employers - mean response (S: V-AC-1a)	3.5
80	QMS survey - overall satisfaction of student services by African-American students - mean response (S: V-AC-1a)	
81	QMS survey - overall satisfaction of university by African-American students - mean response (S: V-AC-1a)	

(66) *Baseline - Market Value for fiscal year ending 6/30/99.*
(67) *Baseline: Fiscal year ending 6/30/99 (Source: Development Office).*
(73)-(81) *Mean based on a range from 1 to 5.*

Section II: Organizational Structure



Section III: Technology Committee

The College now has an elected standing committee for Technology and Facilities. The current members are:

Frank Zamborini - Chemistry
Yin Kat Chang – Fine Arts
Paul Salmon – Psychology
Vacant – The Humanities
Mark Rubenstein – Administrative liason
Lee Larson – Mathematics

The committee will be focusing on an audit of services and process associated with technology in the College.

Individual departments within the College are also encouraged to establish technology committees.

Section IV: Technology Needs Assessment

University of Louisville
Academic Technologies and Support Services Plan
Current Systems and Services Inventory

The purpose of this survey tool is to compile an inventory of the resources currently in place to provide academic IT systems and services to the University community. Your responses to this survey tool will be utilized to (1) depict the current state of academic IT systems and services at the University and (2) provide tangible illustration of the gap between the current state of academic technologies and services and desired future state of these resources.

Unit Name: Arts & Sciences
Contact Person: Mark Rubenstein
Phone #: 852-8840
Email: mark.rubenstein@louisville.edu

Please respond to the following questions on behalf of your unit:

Technology Planning & Purchases

Does your unit have an active technology committee? **The College has an elected committee comprised of 6 faculty members and an Administrative liason. 9 of 18 responding departments also have active technology committees**.

Does your unit have an information and instructional technology plan? Do you follow it? **One of the initial charges for the committee is to create a long term plan for managing technology.**

Does your unit have an active technology replacement program in place? If so, how is it funded? **The College has been able to provide for most basic needs. Funds that are uncommitted to prior projects at the end of the fiscal year are used to purchase replacement equipment. Naturally, the amount available is fluid each year. Other projects are planned in advance and budgeted as necessary. 4 responding departments do have a funded replacement cycle. 2 of those are the ROTC programs which are federally funded. The other 2 have a portion of S&E set aside**.

If so, how frequently does this program facilitate replacement of computing resources for:

- Faculty members: **as necessary**_____
- Staff members: __**as necessary**_____
- Public computers/labs: **as able**_____

Supply the total number and types of computing resources in your unit and their respective age:

	Number of Computers By Type			Last Upgrade Date			
	PC	Macintosh	Other	< 1 year	1-2 years	2-3 years	> 3 years
Faculty	193	33		91	54	57	24
Staff	86	12		39	22	24	13
Public/Labs	174	26		38	66	58	38

Student Computing Resources

Please provide an inventory of computing labs managed solely by your unit by completing the chart below.

Lab Location	Department	Lab Purpose	Public Access?	Number of Computers	Computer Type
Lutz Hall 131	Sociology	Instruction	No	17	Dell
Ford Hall 113	PolSci	Instruction	Majors	6	PC
Humanities 15	English	Instruction	Yes	38	PC
Humanities 104B	English	Instruction	Yes		PC
Humanities 4H	English	GTA Staff	No	4	PC
Humanities 204	English	GTA Staff	No	3	PC
Humanities 104C	CML	Instruction	No	27	PC
Dougherty 201	Army ROTC	Instruction	No	5	PC
Lutz 225	GeoGeo	Spatial Analysis	No	15	PC
Lutz 224	Geo & CGIS	GIS Instruction	No	15	PC
Honors 201	Honors	Student Work/Research	No	6	PC
Lutz 235	Anthro	Student Lab	No	2	PC
Strickler 309	Comm	Instruction	No	24	PC
Strickler 307	Comm	Instruction	Yes	10	PC
Belknap Playhouse 110	Theatre Arts	Instruction	No	5	PC
Ford Hall 3rd floor	PolSci	Instruction	No	35	Wireless
Schneider 031	Fine Arts	Instruction	No	22	Mac
Life Sciences 135	Psych	Student Work/Research	For majors	16	PC
Life Sciences 207	Biology	Physiology Data Lab	No	4	Mac

Describe any other computing facilities (excluded classrooms) managed by your unit.

Facility Location	Department	Facility Purpose	Public Access?	Number of Computers	Computer Type

Unit Academic IT Resources

Estimate the FTE personnel effort within your unit expended on the following functions supporting academic IT systems and services. Put any notes/explanation on additional pages if desired. Please see Attachment 1 for further information regarding each function in the chart below.

Function	Tier 1 Resources	Student Resources	Other Resources
Classroom technologies	0.70	4.25	0.5
Distance/online learning	0.55	0.20	0.13
Networking/infrastructure	0	0.10	0.51
Research computing	0	0.10	0.14
Student computing resources	0.50	0.10	0.05
Technology acquisition	0.22	0.00	0.38
Technology support	4.35	0.20	0.45
Technology training	0.05	0.20	0.03
Web development	0.22	.020	0.20
Technology Planning/Governance	0.05	0.00	0.15
Total FTEs	**6.64**	**5.35**	**2.54**

Networking & Technical Infrastructure

Has your unit implemented any of the following technologies?

- Wireless network: **Political Science/Ford Hall** If so, when? **Summer 2000**
- Laptop requirement: **English/Geosciences** If so, when? **Both 08/01**
- PDA requirement: _____ If so, when? _____
- PDA infrastructure: _____ If so, when? _____

Does your unit have plans to implement any of the following technologies?

- Wireless network: _____ If so, when? _____
- Laptop requirement: _____ If so, when? _____
- PDA requirement: _____ If so, when? _____
- PDA infrastructure: _____ If so, when? _____

What percentage of all computing resources within your unit are currently served by a fast Ethernet connection (100mb to desktop)? **50%**_____

What percentage of all computing resources within your unit require a fast Ethernet connection (100mb to desktop)? **75-80%**_____

Provide an inventory of the number and type (e.g. application, database, file storage) of servers managed solely by your unit.

Server Type	Quantity	Server Purpose	Application(s) Supported
Application	1	GIS Instructional Software	GIS
Database	1	GIS Instructional Software	GIS
File	4	Storage/Backups	NA
Print	4		NA
Other Web_____	2		Apache
Other _____			
Other _____			

Technology Training

Has your unit implemented an active training program for:

- Students: Yes ___ No **X**___
- Faculty: Yes ___ No **X**___
- Staff: Yes ___ No **X**___

***Sociology was the only department that responded in the affirmative on training programs**.

A series of proposed technology competencies has been attached as Attachment 2. If your department has implemented an active training program, does it satisfy the requirements listed in this vision for:

- Students: Yes ___ No **X**___
- Faculty: Yes ___ No **X**___
- Staff: Yes ___ No **X**___

***Sociology was the only department that responded in the affirmative on training programs that meet competency requirements.**

List your unit's <u>additional</u> expectations regarding technology training/competency needs for students, faculty and staff. Indicate whether these expectations apply to students, faculty, and/or staff.

Technology Training Need/Competency	Student Need	Faculty Need	Staff Need
ESRI			X
Statistical and Analysis		X	
Presentation Technologies		X	X
HTML/Web Authoring		X	X
Distance Education Technologies		X	

Instructional Technologies

What percentage of courses within your unit are currently utilizing distance or online learning technologies? **Roughly 20%**_____

What percentage of faculty within your unit are currently utilizing distance or online learning technologies? **Roughly 15%**

Please list the technologies that are being utilized. **Blackboard, web based instruction, TV through KET, audio streaming, web-based data acquisition and analysis**

Does your unit participate in any collaborative/partnership education programs with external entities? If so, what percentage of these arrangements currently utilizes distance or online learning technologies? **Army ROTC shows 25% of their courses using materials from the US Army. Geography/Geosciences reports 50% utilize USGS materials**

Please list the technologies that are being utilized. **Databases and web-based instruction**

Does your unit reward and/or recognize faculty members who use online or distance learning technologies? **A small number of departments do offer recognition/rewards for their faculty members**.

Give examples of such rewards of recognitions. **Political Science offers laptops to faculty who utilize distance learning technologies in the classroom. Sociology offers travel funds and equipment funds**.

What percentage of faculty within your unit are currently utilizing classroom technologies (e.g. networked computer with projector)? **College average is ~35%. Some departments are at 100% and some are at 0%.**

Does your unit reward and/or recognize faculty members who use classroom technologies? **No. Geography/Geosciences is the only department who provides recognition for using classroom technology**.

Give examples of such rewards of recognitions. **Geo/Geo provides equipment support and merit recognition.**

Research Computing

How many of your unit faculty use specialized information technology resources for research? **20%**

List the technologies used by your unit in support of research activities. **SPSS, SAS, GIS software, CDROMs, online databases, virtual libraries, DNA sequencer, Literature databases, PC Link to laser and x-ray diffractor, and microscopic digital imaging.**

What percentage of such resources are supported by:

- Funding from the University: **Geography/GEOS 30%, ANTHRO 60%, Sociology 80%, CML 25%, Political Science 5%**
- Funding from your unit: **Geography/GEOS 65%, History 100%, ANTHRO 30%, Sociology 20%, CML 75%, Political Science 85%**
- Funding from the researcher's grants: **Geography/GEOS 5%, ANTHRO 10%, Political Science 5%**

Who provides service and support of these resources?

- Division of Information Technology X
- Tier 1 and/or other unit resources X

- External service provider (specify)_____
- Other (specify) _____

Academic IT Service Contracts

Please describe any contacts that your unit has developed with the University's Division of Information Technology for the provision of academic IT services. Contract for Back-Up services and software licensing (MS Campus Agreement) **Several departments participate in the Microsoft Campus Agreement. The Dean's Office uses I.T. Back-up services for the DEANOFF server.**

Please describe any contacts that your unit has developed with external service providers for the provision of academic IT services. **Fine Arts contracts with a local vendor for the majority of support for their Apple systems.**

Section V: Technology Goals, Objectives, and Competencies

Goals	Target Implementation Date	Projected Costs		Other Resource Considerations
		One-time	*CAR*	
I. Enhance student access to technology resources that support their learning and research				
a. Promote awareness of A&S open computer labs	Fall 2004	N/A	N/A	Ongoing
b. Assess needs regarding available support to staff specific A&S computer labs to make them available for a greater portion of the day.	2004	TBD	TBD	Utilize student work force and add 4 – 5 additional workers.
c. Utilize newly formed A&S Student Support Services as a vehicle for disseminating information on resources to A&S student population.	Fall 2004	N/A	N/A	Ongoing
II. Develop and support programs to deliver instruction in a technology-enhanced medium				
a. Equip all A&S classrooms with a computer, projector, and video display capabilities	2004-2005	$200,000	$10,000 (add'l)	Equip remaining classrooms that have no technology currently installed.
b. Install computers in A&S classrooms where projection/multimedia equipment is already installed.	2004	$22,500	$4,600	Install PCs in classrooms where tech equipment is already present.

	c. Create a separate budget for CAR on technology classrooms (lamps, repairs, etc.).	2003	$5,000	$5,000	Budget for lamp replacement and service.
III.	Employ and coordinate resources to provide technology support for the university community's academic technology systems and users				
	a. Add additional Tier 1 support staff	2005	$80,000	$80,000	Add two additional Tier 1 support staff. These would be added to the AS Tech staff currently in place
	b. Increase student employee pool for fill-in or task specific support	2004	$10,000	$10,000	Add 2-3 additional student workers to support AS Tech service endeavors.
	c. Establish a virtual consortium amongst users to share information in a collaborative and cooperative environment.	2004-2005	N/A	N/A	An online venture where questions could be posted and responded to by other users. Information would be available always through archive. Cost should be negligible unless software would be needed.
	d. Purchase additional portable LCD projectors for seminars, meetings, and occasional use in non-technology enhanced classrooms	2005	$3,500	$500	Buy 4 additional LCD projectors to add to the 1 we currently own.
IV.	Provide the technologies, systems, and services necessary to support and expand the University's research endeavors				
	a. Convert all 10mb Ethernet connections to 100mb Ethernet connections for all research intensive units	2003-?	$50,000		Assumes converting 100 connections @ $500 per conversion. CAR not effected as we're currently covering CAR on connections.

	b. Establish a virtual consortium specific to researchers	2003-2004	N/A	N/A	See item IIIc above.
	c. Effectively communicate all potential funding sources identified by the Associate Dean for Research.	Ongoing	N/A	N/A	Ongoing objective
	d. Disseminate HIPAA standards and requirements	Ongoing			Monitored and administered by the A&S Associate Dean for Research
V.	Empower faculty, staff, and students to use technology to meet learning objectives, institutional goals, and personal needs in a technologically complex world				
	a. Raise awareness of training opportunities that already exist or are currently being offered by/through the university.	Ongoing	N/A	N/A	Identify avenues of publicizing services.
	b. Develop internal training offerings specific to user needs as demands dictate.	2005	$5,000	$5,000	Explore possibility of providing X pay or stipend to staff/faculty willing to conduct training for others.
	c. Add additional Tier 1 staff.	2005			See item IIIa above.
	d. Increase number of laptops in loaner library.	2005	$20,000	$5,000	Add an additional 10 laptops to loaner library currently on hand. These are loaned to faculty traveling on university business and like uses.

VI.	Empower faculty in redesigning teaching, learning and research environments to include current and emerging technologies				
	a. Install an Audience Response System in 3 classrooms.	2004-2005	$1,500	TBD	Equipment and software are provided by vendor. The College only pays the charges to have the systems installed in the rooms.
	b. Establish a virtual consortium amongst users to share information in a collaborative and cooperative environment.	2003-2004	N/A	N/A	See item IIIc above.
	c. Increase awareness of existing services and resources currently available	2004	N/A	N/A	Explore mediums available to publicize services and resources available.
	d. Explore possibilities of internal resource based training	2005	???	???	Through discussion with department chairs, identify faculty/staff with specific exceptional skills that might be willing to instruct others. Some form of compensation would likely be needed.

VII.	Facilitate the regular renewal of the University's computing resources to ensure operability and compatibility				
	a. Increase funding for technology replacement	2004	$100,000	$100,000	A minimum of a 40% increase is needed in our technology budget. Currently it is impossible to follow an equipment replacement cycle as our budget won't stretch that far. This 40% increase would be the bare minimum necessary to explore such possibilities
	b. Implement replacement cycle for faculty/staff computing resources	2004 - ?	$250,000	$250,000	This goal has been approached several times by the Dean's office. The sum shown is presently our entire technology budget. This figure would allow for a replacement cycle but currently cannot be accommodated as all technology initiatives are funded from this budget.
	c. Coordinate purchases centrally through the Dean's office to leverage buying power and increase standardization of equipment.	2004	N/A	N/A	By pooling our purchasing power we would be able to leverage better prices from vendors as well as bring some standardization to computing resources.

VIII. Provide the technical infrastructure necessary to support the patient care missions of the Health Sciences Campus				
N/A	N/A	N/A	N/A	
IX. Other unit-specific goals				
Require departments to establish technology committees	2004	N/A	N/A	Require A&S departments who do not currently have technology committees to establish one.
Require department technology committees to submit technology plans to the Dean's office	2005 – 2006	N/A	N/A	Allows for better planning at the college level as well as the department level
X. Faculty technology competencies				
a. GroupWise Use				
b. Basic web browsing				
c. Microsoft Office products usage				
d. Use ULink for checking schedules, grade/data entry				
XI. Staff technology competencies				
a. GroupWise Use				
b. Basic web browsing				
c. Microsoft Office products usage				
XII. Student technology competencies				
a. Use of Netmail/Athena				
b. Basic web browsing				
c. Use of word processing software				

Section 6: Technology Implementation Plans

In the proceeding Goals and Objectives table, several details for implementing the technology plan has been noted in the corresponding columns. Successful implementation and maintenance of the plan are contingent on two items; the standing technology committee at the College level and active technology committees within the departments. Many of the standards and competencies will vary widely amongst the departments within Arts and Sciences. Through departmental technology committees the requirements and expectations for the student, staff, and faculty for that specific department can be forged and adapted as necessary to meet the requirements for professionals in their field of expertise.

Section 7: Review and Maintenance

This plan will be reviewed annually by the College's technology committee with input from the departmental technology committees.