

Long-Term Tech-Plan Proposal

To: Dr. Cindi Chance, Dean
Administrative Team
Faculty Executive Committee

From: Technology Committee: Donna Colson, Staff Rep.; Creighton, Alexander, T&L; Elizabeth Downs, LTHD; Elizabeth Edwards, CFR; Jerry Galloway, LTHD, Chair; Betty Nelson, T&L; Kent Rittschof, CFR; Michelle Rivera, IRC)

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We subscribe to the simple principle of maximizing technological advantage and means to empower faculty and staff in meeting instructional goals and enrichment for COE students.

Based on our Spring 2007 *Needs Assessment* of the College of Education, certain notions have surfaced as priorities for the future of technology within the college. A summary of that data is attached as **Appendix A**.

We are making a number of proposals as important long-term goals that should be embraced by the COE faculty and administration. These recommendations, being perhaps more “forward looking,” are intended to bolster and provide direction to existing technology plans and not to replace or supersede existing plans. A copy of our updated Technology Plan for 2007-2008 is attached as **Appendix B**. Pursuant to achieving those ideals, we are calling for incremental action items containing some items for more immediate attention.

Principle #1: Smart-Classrooms. Virtually all classrooms should be technologically equipped and maintained as state-of-the-art, interactive “smart-classrooms” with equipment specifics defined over time. The vision is that substantial progress toward this ideal will be achieved over a 3-year process.

Action: Built-in Projectors. As COE faculty have overwhelmingly expressed a desire to move away from portable workstations, computer projection systems should be installed into all classrooms ASAP. These installations should be equipped to accommodate a variety of device interfaces such as laptops, desktops and a variety of media players and portable devices (Audio, DVDs, IPODs, etc.) that might be brought to these classrooms. Funding sought for built-in projectors should not be solely dependent upon Student Technology Fees given the high priority

of this need and the unreliability of that source of funds. Technology requests for 2007-2008 should include built-in projectors and associated security measures as a starting point toward gradual Smart Classroom implementation.

Action: Next Phases. The Technology Committee should be charged annually with determining subsequent, acquisitions and/or programmatic developments to carryout the mission of incrementally developing realization of this principle, beginning with built-in projectors. The present vision is that this will at least involve Internet, multimedia, and fully-equipped instructor stations. The Committee believes that this should also include multi-computer interfaces, distance education and media production capabilities.

Principle #2: Virtual-Classrooms. With the growing trends toward online course delivery and distance education, increasingly realistic virtual environments are necessary to support instruction and interaction between remote students and faculty. This will require an investment in software, faculty training, and most probably, hardware and online services as well. The vision is that substantial progress be achieved in 3 years toward becoming a flagship leader of online course delivery with virtual environment support systems.

Action: Trial System. Material support should be provided before the end of this calendar year to empower the investigation, selection and hopefully a trial implementation of a virtual system for online course delivery. This vision calls for a simulated “environment” and is not satisfied by use of applications and organizational tools such as *WebCT*, *BlackBoard*, *OnCourse*, or *LiveText*. At this early stage, suggestions include looking at the *Live-Classroom* system and educational systems from *Second-Life*.

Principle #3: Professional Development. With the constant need to become more technology-literate and to become leaders of tech-integration across the curriculum, all faculty need to learn to use and to understand the implementation of technology. Since it is not feasible to acquire the necessary level of technology education primarily by attending conference sessions and not practical for many to pursue such advancement independently, it is considered a necessary minimum that the university materially assist faculty. This assistance might take the form of financial support for workshops, travel or software but can also include hosted training programs or other opportunities.

Actions:

- a. Maintain existing schedules and opportunities for workshops and other in-service training for faculty and staff.
- b. Communicate and help to connect available training and professional development opportunities to faculty and staff.
- c. Increase training opportunity awareness for sessions and workshops available through the CET, Library, Emerging

Technologies, and Continuing Education, providing support funding for fees as needed.

Note: Security: There are omnipresent risks of theft and damage for virtually any technology, presentation equipment included. There are a number of techniques from cages, metal frames, locking brackets, electronic sensors, cameras and more that can help to deter theft. Nothing will absolutely prevent theft but effective deterrence is a reasonable goal. A greater investment in security tools and methods might increase the deterrent effect. It is suggested that, as equipment is acquired, Pam Deal and Robby Ambler of Emerging Technologies be consulted to advise on effective methods used elsewhere on campus with similar equipment, placements, and installations. The committee believes that security concerns should not be made a barrier to effective integration of needed instructional technologies.

Appendix A

Data Summary from 07 Technology "Needs" Assessment

22 respondents - that includes 7 staff.

Is current technology adequate for current needs?	YES	NO	No Rspns
	59%	27%	14%

Current "Yes" Uses:

- Basic Tool Use
- Office Applications
- Instructional Applications
- Internet-based activities
- Presenting
- Portability w/ Laptops

No's – Current Needs:

- Smart Boards
- Classroom multimedia projection w/ audio
- Online Advising & Visual Supervision
- Internet-equipped classrooms
... (? smart classrooms ?)

What is your future need for technology (3-5 years)?

Main Themes:

- More and Newer.
- Complete tech-equipped classrooms.
- Personal Unencumbered Portability.

Goals: ease and independence of use, total integration into teaching

Needs:

- Computer-ready / Smart Classrooms: *State-of-the-art software and current hardware, wireless, ceiling mounted (built-in) projection, Misc. Task-specific software selections*
- Personal Portability: *Blackberry, Wireless, Laptops*
- Virtual School: - *web-cams, internet video for remote supervision w/ software or website to support it.*
- *Online-interactive classroom environment ("virtual school") for online course delivery*
- No more movable work-stations - *(prefer built-in)*
- Maintain at least currently minimal functionality - *of software & hardware*

What major changes should the COE adopt for technology?

1. **Computer-equipped / Smart Classrooms** - *No more carts or portable workstations – instead, built-in, permanent presentation technology for laptop connections*
2. **Virtual school support:** - *interactive virtual classrooms for online course delivery & internet-video for remote supervision.*
3. **Faculty training** - *for state-of-the-art tools*

Conclusions:

1. Respondents are interested and excited about the future of technology for education.
2. Respondents want state-of-the-art operations in order to be leaders in use & application
3. Respondents seek total technology integration into professional tasks.

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Appendix B

**Updated Technology Plan
May 2, 2007**

2007 Five-Year Strategic Plan

Updated 5/4/2007

I. Strategic Technology Plan – College of Education

Strategy 1: Increase access to appropriate technologies in support of teaching, scholarship, and service.

Links to the following Strategic Themes: Academic Distinction and Technological Advancement

- Informed use of cutting-edge technology to attain information literacy
- Information technologies that are integrated with and support and enhance teaching and learning
- Student access and training in the use of technology to enrich learning

- Tactic 1: Ensure that all learning environments are equipped with, or have access to, contemporary instructional hardware.
- a. Traditional media such as overhead projectors, audio CD players, VCRs and monitors
 - b. Computer workstations (wireless or networked)
 - c. Internet access
 - d. Hardware for projection from computer/video output
 - e. Appropriate lighting and audio systems
 - f. Distance learning systems and infrastructure that matches industry standards and is compatible with the GSU campus

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee/ Technology Coordinator	IRC Budget Student Technology Fee	Ongoing	Technology Committee Yearly Review

- Tactic 2: Ensure that all faculty, staff, and students will have access to portable technologies that will be used off-campus or in non-traditional environments in fulfilling faculty missions of teaching, research and service, staff missions of administration and service, and student missions of learning
- a. laptop computers, including hardware for network connectivity (e.g., modem or local area network card and/or wireless capabilities)
 - b. projection capabilities for presentations
 - c. still and video digital cameras and associated equipment
 - d. Internet access

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee/ Technology Coordinator		Ongoing	Technology Committee Yearly Review

Tactic 3: Ensure that all faculty, staff, and students will have access to a range of basic software programs.

- a. operating system software
- b. word processing software
- c. database software
- d. spreadsheet software
- e. presentation software
- f. graphics and audio software
- g. digitizing software
- h. network software
- i. multimedia, hypermedia, and authoring software
- j. statistical analysis software
- k. distance learning and teleconferencing software

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee/ Technology Coordinator	IRC Budget Student Technology Fee	Ongoing	Technology Committee Yearly Review

Tactic 4: Ensure that all faculty, staff and students will have access to profession-specific advanced technologies to meet specialized accreditation needs.

- a. file server and network/wireless software for instructional use
- b. scoring and interpretation software for psychometric measures
- c. imaging and digitizing technology
- d. laser and fiber optics communications equipment
- e. image scanning software
- f. distributed learning systems
- g. color printers
- h. school models of technology
- i. electronic portfolio system

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee/ Technology Coordinator	Undergraduate Teacher Education; Dean's Office	Ongoing	Technology Committee Yearly Review

Tactic 5: The College will incorporate guidelines provided by the University to assure that faculty, staff, and students with disabilities have reasonable access to technical equipment and instructional materials.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Coordinator	Student Disability Resource Center	Update Yearly	Student Disability Resource Center = Checklist/Guidelines

Tactic 6: Review college policies on a regular basis to ensure access to and update of software as well as equipment (GSU Technology and Information Resource Plan - Strategy 10).

- a. Conduct inventory of current technology in the COE and at distance learning sites.
- b. Develop an appropriate replacement/surplus schedule for software, instructional and laboratory equipment, and other technology.
- c. Implement a system for biennial review of the adequacy of all aspects of the institution's technological resources in light of new products, services, and opportunities.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee/Technology Coordinator	<ul style="list-style-type: none"> o Replace/update schedule: faculty/staff machines every 5 years. o Replace/update schedule lab every 5 years. Dean's Office Budget Department Equipment Budget End-of-Year Monies Student Tech Fee	Ongoing	Technology Committee Yearly Review

Tactic 7: Review IRC policies and procedures on a regular basis to ensure coordinated access to appropriate technologies.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee/Technology		Ongoing	Technology Committee Yearly Review

Coordinator/IRC			
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Tactic 8: Work with computer services to provide trained support personnel on site and implement systems to respond to problems which disrupt the work of faculty, staff, and students.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Dean's office/Technology Committee/Technology Coordinator/IRC	IT Services Dedicated Student Workers Staff Emerging Technologies IRC	Ongoing	Technology Committee Yearly Review

Tactic 9: Obtain a comprehensive list of information, instructional, and laboratory technology needs, including justification, priorities, and costs. Seek funding to support technology (GSU Technology and Information Resource Plan - Strategy 12).

- a. Submit proposals for the use of the student technology fee each funding cycle.
- b. Seek, evaluate, and recommend opportunities to procure grant and private funding, technology, and training.
- c. Investigate implementing student technology fees to maintain and update technology equipment.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Coordinator/Technology Committee/IRC		Ongoing	Comprehensive list developed/ Funding obtained

Strategy 2: Infuse technology into teaching, scholarship, and service, and review new models, tools, and strategies of instruction based on emerging technologies.

Links to the following Strategic Themes: Academic Distinction and Technological Advancement

- Informed use of cutting-edge technology to attain information literacy
- Information technologies that are integrated with and support and enhance teaching and learning
- Student access and training in the use of technology to enrich learning and personal development

- o Equipment systems, training, and support that encourage and facilitate teaching and learning, and scholarly activity

Tactic 1: Develop incentives for faculty and staff to use appropriate technologies (GSU Technology and Information Resource Plan - Strategy 14).

- Pursue incentives for faculty and staff: release time for professional development, release time for new course development, recognition for experimental teaching, professional development, and implementation of technology into work on annual/merit/tenure evaluations.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Dean's office/Technology Committee		Ongoing	Incentives in place/Survey faculty for input/Tenure and promotion documents reflect tactic

Tactic 2: Design and improve distance/online learning (GSU Technology and Information Resource Plan - Strategy 2).

- Identify the need for distance/online courses.
- Publish two to three year offerings.
- Move low enrollment courses to on-line settings as appropriate.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Coordinator/Programs		Ongoing	Seek input from faculty/programs/students

Tactic 3: Faculty will identify immediate and long-term technological needs and integrate technology into their teaching pedagogy as well as employ a range of appropriate technological tools and software as part of their instructional practice.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Faculty		Ongoing	Survey faculty/NCATE feedback

Strategy 3: Develop technological competence in the college’s faculty, staff and students.

Links to the following Strategic Themes: Academic Distinction and Technological Advancement

- Student access and training in the use of technology to enrich learning
- Equipment systems, training, and support that encourage and facilitate teaching and learning, and scholarly activity
- Promotion of collaborative relationships as a means of achieving better results

Tactic 1: Meet all accreditation standards, both regional and national, related to technology competence for programs, faculty, and students.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Dean’s office		Ongoing	Check standards

Tactic 2: Faculty, staff, and students will be provided with adequate opportunities and environments to gain or update new technology skills and knowledge.

- a. Design, attend, and/or offer classes and workshops related to technology.
- b. Provide release time or summer salary as compensation for faculty/staff to design, attend, and/or give workshops and classes related to technology.
- c. Attend workshops or classes held at the CET, IRC, ET, or library on campus.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee/Technology Coordinator	CET IRC ET Dean’s Office Henderson Library	Ongoing	Survey faculty/records of participation

Tactic 3: All candidates should be aware of the specific outcomes for the knowledge, skills, and dispositions acquired in their programs of study that are essential for successful performance in a technology-enriched P-12 classroom or human service agency.

- a. NCATE standards call for successful examples of P-12 students’ performance assessments that have been impacted by teacher education students’ presence in their classroom. Candidates should be aware of the possibilities in terms of outcomes and the COE must find ways to demonstrate these outcomes.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Faculty/programs		Ongoing	Assess students (student electronic portfolio)/NCATE feedback

Tactic 4: Using appropriate technologies, undergraduate and graduate students will be able to develop and deliver content to their P-12 students and faculties in clear and compelling ways.

- a. Candidates as well as graduate students need to see examples of “best practice” both in their campus classrooms and in the field. In turn, they should be able to model these strategies for their learners, P-12 students, and educators.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Faculty/Programs		Ongoing	Assess students (student electronic portfolio)/NCATE feedback

Tactic 5: Graduate technologically competent students.

- a. All teacher, leadership and service candidates acquire competencies in basic computer/technology operations, in personal and professional uses of technology, and in the application of technology for instruction.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Faculty/Programs		Ongoing	NCATE accreditation/Guarantee/first three year data

Strategy 4: Continual assessment of the implementation of technology for learning.

Links to the following Strategic Theme: Technological Advancement

- A decision-support system responsive to user needs that facilitates informed planning and administration
- Administrative systems that utilize appropriate technologies to effectively deliver the highest level of service to the campus

Tactic 1: Establish a plan for selecting technology solutions for administrative needs.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Dean's office/Administrative team/Technology Committee		Ongoing	Survey administrators/solutions in place

Tactic 2: Review and implement an electronic professional accountability support system for teacher education(such as Taskstream) which facilitates the development of a professional portfolio to demonstrate candidates' ability to construct quality plans, show the results of their students' learning and analyze and evaluate these results to improve student learning. This system is a web-based tool with the ability to gather and evaluate performance data on pre-service teachers and teachers in years one through three of professional service after graduation. The system provides functionality for the creation of electronic portfolios.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee	Special Allocation of Funds	Ongoing	Input from programs/Review and implementation of system

Tactic 3: Obtain funding to support technology (GSU Technology and Information Resource Plan - Strategy 12).

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Coordinator/IRC/Administrative Team/Center for Educational Renewal	Student Tech Fee End of Year Monies Departmental Budgets COE Budget Allocation	Ongoing	Funding obtained

Tactic 4: Obtain funding to support professional development, hardware/software needs, as well as the implementation process.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Coordinator/IRC/Administrative Team/Center for Educational Renewal	Student Tech Fee End of Year Monies Departmental Budgets COE Budget Allocation	Ongoing	Funding obtained

Tactic 5: Review and revise the long-range technology plan on an annual basis with final approval provided by the entire College.

The following questions should be examined during the annual review of the technology plan:

- a. Were goals established and met?
- b. Was the plan fully implemented?
- c. Is the hardware and software being used?
- d. What has been the faculty, student, and staff response?
- e. Has an implementation timeline been followed?
- f. Have the new technologies been accepted?
- g. What are new areas that need to be added?
- h. What areas need to be modified?

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee		Ongoing/Annually	College approval/consensus

Tactic 6: Survey uses of technology and identify needs (e.g., survey faculty, staff, students, partner schools, and other identified stakeholders).

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Committee/Technology Coordinator		Ongoing/Annually	Technology Plan

Strategy 5: Enhance communication through the use of appropriate technologies within the college community.

Links to the following Strategic Themes: Academic Distinction, Technological Advancement, and Private and Public Partnerships

- Promotion of collaborative relationships as a means of achieving better results
- A networked environment based on a universal e-mail system and shared information resources to facilitate communications among and between students, faculty, administrators, and staff

Tactic 1: Pursue linkages to P-12 schools, human service agencies, and to other sectors of the university or community where students receive portions of their training.

- a. Serve as an information technology resource beyond the campus setting.
- b. The College website will provide links of interest for current students, faculty, staff, partner schools, and other visitors.
- c. Teacher education candidates will enrich field and placement sites through the use of their knowledge and skill of technology.
- d. Teacher education candidates will strengthen the technology infrastructure of the schools and institutions hiring our students.

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Dean's office COE Web Master		Ongoing	Feedback from stakeholders

Tactic 2: Use appropriate technology to facilitate and enhance the ability of faculty, staff, students, and visitors to access the college and equipment (GSU Technology and Information Resource Plan - Strategy 2).

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Technology Coordinator/Programs/Departments		Ongoing	Amount of access/usage

Tactic 3: Improve communication and cooperation among faculty, staff, and students (GSU Technology and Information Resource Plan - Strategy 15).

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Dean's Office		Ongoing	Feedback from faculty, staff, and students

Tactic 4: Enhance transcultural opportunities through appropriate technologies (GSU Technology and Information Resource Plan - Strategy 16).

Responsible for Implementation	Resource Requirements/Sources	Timeline	Measure of Progress
Dean's Office/Center for Educational Renewal		Ongoing	Feedback from faculty, staff, and students