

**College of Education  
Instructional Technology Plan**

**March 17, 2006**

## College of Education Conceptual Framework

The College of Education prepares exemplary, reflective professionals to serve a diverse global community; it achieves that end through teaching, scholarship, outreach and partnership at the local, national and international levels.

### COE Strategic Technology Plan

The College of Education collaboratively developed a five year strategic technology plan. The planning process was shared and documented through the committee's web site <http://www.coe.uga.edu/techplan>.

### COE Strategic Technology Goal

The College of Education will use technology to drive innovation through research, instruction, and service.

#### ***Instructional Objectives***

- *Increase programmatic technology and curriculum integration to prepare graduates for the 21<sup>st</sup> century*
- *Increase the access to and support of exemplary practice*
- *Increase the technology infrastructure to support off-campus programs*
- *Increase the college's ability to assess the technology skills of graduates*
- *Increase opportunities for information concerning legal and ethical considerations*

### Rationale

The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE). "NCATE's standards expect accredited schools of education to provide adequate access to computers and other technologies, and expect faculty and candidates to be able to use technology effectively as a teaching tool." (<http://www.ncate.org/pubs/diff.pdf>)

The International Society for Technology in Education (ISTE) has developed standards for technology skills for students, teachers, and administrators. These standards cover six competency areas: basic computer skills, information literacy skills, productivity skills, communication skills, problem solving skills, and social and ethical concepts. Colleges of education must provide the opportunity for pre-service and practicing teachers and administrators to learn these skills in a technologically rich environment in order to integrate technology and curriculum so that students learn technology competency. (<http://www.iste.org> )

## Process

In the fall, 2001, the COE Technology Advisory Council consisting of faculty, undergraduate and graduate students developed strategies for instructional technology that would support the college mission and vision. The council recommended a tiered system for spending Student Technology Fees. The tiers represented strategies for:

- Allocating dollars to provide maximum impact to students
- Identification of technology for classrooms, labs, centralized check-out, infrastructure, departmental needs, and innovation
- Structure to distribute technology equitably at Aderhold, Ramsey and River's Crossing

•**Tier 1 - Basic Technology Infrastructure** to support student needs (sufficient hardware for students to have timely and high speed connections to the Internet, items like classroom hubs, drops and switches)

•**Tier 2 - Computer Laboratories** (instructional/open laboratories for student use) and classroom needs (equipment/technology needed to support student instruction and student presentations)

•**Tier 3 - Centralized/Common Use Equipment** for student checkout (portable computers, digital cameras, etc.)

•**Tier 4 - Specialized Departmental Needs**

•**Tier 5 - Experimentation** to improve student access and use of technology (wireless technology, voice recognition software, etc.)

## Instructional Technology Planning Events

Fall of 2002, OIT staff inventoried lab, classroom, and Media Services technology. Software licenses were reviewed and identified for upgrades when appropriate. Departmental requests for software were identified and added to lab configurations where appropriate. Strategies for hardware replacement were discussed and adopted.

Departmental requests for consideration were collected each year in January for consideration as special projects.

A plan was developed for instructional technology with a focus on lab technology, software compliance, classroom technology, centralized equipment technology, infrastructure, and experimentation to improve student access and use of technology.

On March 3, 2006 the Technology Advisory Council approved the recommendations for the three-year plan and prioritized special project/program requests.

The recommended COE Instructional Technology plan was presented to and approved by the Dean of the College of Education, Dr. Louis Castenell.

The COE Student Technology Fee Request was delivered to Dr. Barbara White, CIO and Associate Provost on March 17, 2006.

The estimate for implementing the 2006-2007 Tier 1-3 COE Instructional Technology Plan is \$294,051. Past experience with economy of scale in purchasing computers, peripherals, and software indicate that COE will be able to implement this plan with the allocated 2006-2007 funds of \$288,591. Tier 4 and Tier 5 initiatives were submitted as Student Technology Fee Project/Program Requests.

COE is committed to sharing with students how the student technology fee is used. Stickers will be placed on equipment. Signs will be included in the entrance of labs and Media Services indicating what was purchased with tech fee dollars. Additionally, information will be published on the COE web site and included in the OIT newsletter.

### **COE Technology Plan 2006-2008**

#### **Nature of Initiative: Tier 1 – Basic Technology Infrastructure.**

Location and Departmental Affiliation: COE

Infrastructure improvements will be located at River’s Crossing, Ramsey, and Aderhold. Replacement and backup equipment for the wireless network and for the instructional servers will be purchased as needed.

Number of students: 9 departments, 4661 (2005 Fact Book)

Estimated Cost from Student Technology Fee:

<b>Description</b>	<b>2006-2007</b>	<b>2007-2008</b>	<b>2008-2009</b>
Wireless Access Points and/or routers	\$5,000	\$33,000	\$48,000
Cabling/Mounting	\$500	\$1,000	\$1,000
Instructional Servers	\$500	\$5,500	\$500
Network Upgrades	\$0	\$50,000	\$10,000
<b>Total</b>	<b>\$6,000.00</b>	<b>\$89,500.00</b>	<b>\$59,500.00</b>

Benefiting courses or activities: Adequate infrastructure is required to allow timely access to resources for students in classrooms, laboratories, and graduate student offices. Additionally, more of our students are using wireless laptops and other wireless devices to connect to resources.

**Nature of Initiative: Tier 2 – Computer Laboratories (Instructional/Open Laboratories for Student Use).**

Location and Departmental Affiliation: COE  
 Aderhold Computer Laboratories: 227, 228, 233, 616, 618  
 Ramsey Computer Laboratories: 214  
 River’s Crossing Laboratories: 135, 143, 156

Number of students: 9 departments, 4661 (2005 Fact Book)

Estimated Cost from Student Technology Fee:

<b>Description</b>	<b>2006-2007</b>	<b>2007-2008</b>	<b>2008-2009</b>
Computers – 3 year replacement	\$91,700	\$65,400	\$81,600
Projectors – 3 year replacement	\$0	\$0	\$0
Software Upgrades and New Applications – includes shared departmental requests	\$45,885	\$51,760	\$36,485
Sound Systems and Control Panels – install or upgrade	\$0	\$0	\$0
Printers and Scanners – 3 year replacement	\$2,300	\$5,300	\$0
<b>Total</b>	<b>\$139,885.00</b>	<b>\$122,460.00</b>	<b>\$118,085.00</b>

Benefiting courses or activities: The COE developed a systematic plan for rotating new hardware and software into our laboratories every three years. The three year old equipment and software, when relevant, is moved into other areas such as graduate student mini labs, graduate teaching assistant work areas, and other student work areas. This plan has created the opportunity to provide

access for our students as they use technology for project development, communication, access to instructional resources, and collaboration. The labs provide the most cost effective way to provide these resources to the largest number of students.

The labs also provide a way for the college to create an instructional environment for our students to learn and practice integrating technology into instructional practice. Our graduates will be responsible for creating classroom activities where students learn academic knowledge and technical skills. This strategy also supports NCATE standards with a focus on technology and technology competency for teachers as identified by ISTE.

**Nature of Initiative: Tier 2 – Classroom Technology.**

Location and Departmental Affiliation: COE

Aderhold Classrooms: G5, 102, 112, 114/115, 116/117, 119, 306, 317, 319, 401, 409, 411, 412, 417, 418, 430/432, 520, 531, 581, 601, 613, 625, 626, 627, 631-IP Video

Ramsey Classrooms: 114, 202, 203/204, 205/206, 213, 224, 225

River’s Crossing Classrooms: G-62, G-63-IP Video, G-64, 113, 129, 139

Number of students: 9 departments, 4661 (2005 FACT Book)

Estimated Cost from Student Technology Fee:

<b>Description</b>	<b>2006-2007</b>	<b>2007-2008</b>	<b>2008-2009</b>
Aderhold Classroom Technology Standard Including LCD Projector, Control Panel, Television, VCR, OHP, Screen, and Computer – Three Year Replacement	\$121,589	\$29,600	\$2,500
Ramsey Classroom Technology Standard Including LCD Projector, Control Panel, Television, VCR, OHP, Screen, and Computer – Three Year Replacement	\$0	\$70,092	\$45,863
River’s Crossing. Classroom Technology Standard Including LCD Projector, Control Panel, Television, VCR, OHP, Screen, and Computer – Three Year Replacement	\$0	\$68,892	\$45,863

<b>Total</b>	<b>\$121,589.00</b>	<b>\$168,584.00</b>	<b>\$94,226.00</b>
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Benefiting courses or activities: The COE developed a standard for classroom technology and a three year replacement plan. Students benefit from access to technology in the classrooms as they share information, collaborate on projects, demonstrate instructional strategies, and learn to integrate technology and curriculum.

A major project for COE includes the upgrade of 16 classrooms with touch panels to incorporate multiple inputs. Annotation capability will be included in 6 of the classroom upgrades. A standard for these panels will be implemented and provide increased reliability and support of instructional technology. These classroom upgrades will be completed over a three year period and include Aderhold (G5, 114/115, 317, 416, 531, 627), River's Crossing (G-62, G-63, 139, G-64, 113) and Ramsey Center (114, 203/204, 213, 205/206, 225).

This strategy also supports NCATE standards with a focus on technology and technology competency for teachers as identified by ISTE.

**Nature of Initiative: Tier 2 – Totals**

<b>Description</b>	<b>2006-2007</b>	<b>2007-2008</b>	<b>2008-2009</b>
Computer Laboratory Total	\$139,885	\$122,460	\$118,085
Classroom Technology Total	\$121,589	\$168,584	\$94,226
<b>Tier 2 Total:</b>	<b>\$261,474</b>	<b>\$291,044</b>	<b>\$212,311</b>

**Nature of Initiative: Tier 3 – Centralized Media Services/Common Use Equipment (Student Checkout)**

Location and Departmental Affiliation:  
Aderhold Media Services (COE)

Number of students: 9 departments, 4661 (2005 FACT Book)

Estimated Cost from Student Technology Fee:

<b>Description</b>	<b>2006-2007</b>	<b>2007-2008</b>	<b>2008-2009</b>
Media Services Checkout Equipment such as Laptops, Camcorders, Storage Devices, Transcribers, Recorders, External Hard Drives, Digital Cameras	\$22,577	\$63,256	\$63,256
IP Videoconferencing Upgrade (Cameras and CODEC)	\$0	\$0	\$0
Editing Suite – Digital Video Software Upgrade, Storage Devices	\$4,000	\$29,000	\$3,000
<b>Total</b>	<b>\$26,577</b>	<b>\$92,256.00</b>	<b>\$66,256.00</b>

Benefiting courses or activities: COE provides a centralized checkout of equipment for students. These items, such as laptops, digital cameras, external storage devices, and transcribers, etc., are used by the students for a variety of projects related to instruction. The process maximizes the impact of equipment because it is used when needed and is accessible to the entire COE student population. Technology fees provide the means to purchase and upgrade equipment.

The College of Education editing suites are used by students to create video and multimedia presentations as part of their classroom participation. Additionally, students build portfolios that capture examples of teaching strategies that can be shared with classmates.

K-12 schools have identified communication skills and technology competencies required of students. Our pre-service and practicing teachers must have the experience creating and using video and multimedia elements in order to lead these efforts in their classrooms.

**Special Project or Program Requests**

**Nature of Initiative: Tier 4 – Departmental Requests and**

**Nature of Initiative: Tier 5 – Experimentation to Improve Student Access and Use of Technology**

Benefiting courses or activities: Departmental requests provide the means to address specialized needs or improvements that target disciplines, technology

enhancements, or flexible delivery of instruction. COE requests for technology have exceeded the funding provided through the student technology fee allotment based on COE enrollment and credit hour production. Departmental and experimentation requests that could be served through classroom technology, labs, and Centralized Media Services/Common Use Equipment were incorporated into Tiers 1-3. Requests that focused on unique needs, benefited the university as a whole, or introduced new means to improve student access were collected and are presented as Student Technology Requests. Additional information on impact is included in project worksheets. The COE Technology Advisory Committee recommends consideration for funding these initiatives through the Student Technology Fee Project Request process.

See addendum for prioritized list of project or programs request and request worksheets.

### **Evaluation**

OIT will evaluate the planning, implementation, and support for instructional technology. The method of evaluation will include:

- Timely and within budget purchasing, installation, and training required for hardware, software, and infrastructure
- Six month report to COE Technology Advisory Council – published on the OIT web site (<http://www.coe.uga.edu/oit>)
- Evaluation of COE Technology Plan – March, 2006, COE Technology Advisory Council
- Capture data to support access, use and performance regarding technology (NCATE and PSC Reviews)
- Development of Student Technology Fee plan to support COE goals, January 2007

## **Addendum**

### **COE Technology Advisory Council**

**Richard Andreatta** - Communication Sciences and Special Education

**Kirk Cureton** – Kinesiology

**Linda DeGroff** - Language and Literacy Education

**Alan Stewart** Counseling and Human Development Services

**Sandi Glass** - OIT - Facilitator – *Non-Voting*

**Roger Hill** – Workforce Education, Leadership, and Social Foundations

**John Hoge** – Elementary & Social Studies Education

**Kristi Leonard** – OIT

**Jim Wilson** - Mathematics and Science Education

**Lloyd Rieber** – Educational Psychology & Instructional Technology

**Barry Robinson** – OIT

**Scott Smith** – OIT

**Janet Truluck** - Lifelong Education, Administration and Policy

### **Student Representatives**

Saif Altalib

Christie Cooper

**Addendum  
FY 2006 Tech Fee Summary**

In FY06, the College of Education's student technology fee allocation was \$318,707. In addition, four of our College's special projects were funded for a total of \$65,531 additional funding. The total of our base allocation and special projects funding was \$384,238.

**Description and dollars spent:**

**COE base student technology fee allocation (allotment based on credit hour production and student enrollment)**

**Tier 1 Infrastructure**

**Networking Maintenance and Upgrades: \$65,000**

- Wireless Network Warranty Extension
- River's Crossing Network Upgrade (Main closet – one floor)

**Tier 2 Classroom and Computer Lab Hardware and Software**

**Classroom Technology: \$86,000**

- Classroom projectors for all COE classrooms

**Computer Labs: \$75,590**

- PC Computers (156 River's Crossing, 228, 616 Aderhold)
- MAC Computers (616 Aderhold)

**Software: \$36,663**

- SPSS Annual
- SAS Annual Fee
- iLife
- AdvisorTrac
- Photoshop Elements
- Dreamweaver
- Flash
- Fireworks
- Studio 8
- Acrobat 7
- MPlus
- Qualitative Software Licenses
- Remedy
- Cleaner
- Quicktime Pro Upgrade

**Miscellaneous (Bulbs, Cables, Projector Mounts, Batteries, Etc.): \$6,300**

**Tier 3 Centralized/Common Use Equipment**

**Media Services Checkout Equipment: \$49,154**

- Checkout Laptops (MAC and PC)
- Checkout Projectors
- Digital Camcorders
- Accessories (Camera Bags, Bulbs, Batteries)

**Tier 4 and Tier 5 Specialized Departmental Needs and Experimentation**

**Special Project Funding: \$65,531 (opportunity funding)**

- Teacher Education: Live Text E-Portfolio and Assessment Implementation \$29,500
  - 737 First-Year licenses for LiveText
- Mathematics Education: Upgrade Aderhold 102 and 112: \$23,810
  - 21 – 14 inch iBook Computers
  - 10 iBook Memory Cards
  - Fathom Site License
- Science Education: Technology Equipment, Software, and Camera Equipment: \$9,239
  - GPS System
  - Pocket Weather Stations
  - Science Software
  - Camcorder Packages
  - Digital Still Camera Packages
- Counseling and Human Development: Career Counseling Training Tools: \$2,982
  - Skills One Web-Based Software Program

