

**College of Education
Instructional Technology Plan
2004-2006**

March 14, 2003

Mission

The College of Education of the University of Georgia has a public contract with the citizens of the state and nation to define and achieve its land and sea grant, level one research missions. That responsibility is to provide the highest level of leadership in furthering education and life long learning for all citizens. This mission must be pursued at local, state, national, and international levels and it must permeate academic preparation programs, community collaborations and partnerships, and the domains of teaching, research, and service.

The College of Education of the future will be known for its systematic inquiry, the scholarship of teaching, and the commitment to service through partnerships as guiding principles for our actions. We have established core principles as a way to express our dedication to excellence in education at all levels.

Vision

The College of Education at the University of Georgia will be known for outstanding scholarship, leadership, collaboration, contribution, and excellence in education in order to revitalize education and learning and promote the general welfare of a democratic society. (<http://www.coe.uga.edu/mission.html>)

Office of Information Technology Mission

The mission of the Office of Information Technology is to provide leadership and support to the College of Education through best practices in the effective use of technology for teaching and learning, research, outreach, and administrative programs.

COE Instructional Technology Goals

All learning environments should promote the active construction of knowledge by providing teachers and students with the ability to use a range of effective learning technologies. Technology should not drive instruction, but appropriate technologies should be available for use in enriching the instructional process.

All learning environments will be equipped with, or have easy access to, contemporary instructional technology.

Faculty, staff and students will have access to portable technologies that will be used off-campus in fulfilling the missions of teaching, research and service.

The legal requirements of one package or license per machine will be followed in providing for software needs. Faculty, staff and students will have access to a range of basic software programs.

College of Education graduates should be exposed to the most advanced technology specific to their profession to ensure their ability to secure employment, function competently, and provide leadership.

Hardware and software used for teaching, research and service will be updated on a regular basis and at a minimum every three years. Updating will be more frequent in program areas where state-of-the-art technology is critical to effectiveness.

The College will provide state-of-the-art security to prevent the loss of, and ensure uninterrupted access to, technology and information.

The College will provide an adequate number of support personnel to install, maintain, repair and provide assistance with technology.

Faculty, staff and students will be provided with an adequate opportunity to update or gain new technology skills and knowledge.

Decisions about allocation of resources will be made in an objective, fair, inclusive, and equitable manner in order to provide optimal use of technological resources within the college. (<http://www.coe.uga.edu/techgoals/goalswork.html>)

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 replacement of hardware were developed based on a three year replacement plan.

Departmental requests for consideration were collected in November, 2002.

A three year 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 February 24, the Technology Advisory Council reviewed the three year plan and prioritized special project/program and special needs 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 Kirk Bertram, CIO and Associate Provost on March 14, 2003.

The estimate for implementing Tier 1-3, Year 1 of the COE Instructional Technology Plan is \$302,000. Tier 4 and Tier 5 initiatives were submitted as Student Technology Fee Project/Program Requests and one Special Needs Request.

COE Technology Plan 2004-2006

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. Switches will be installed at River’s Crossing to serve instructional areas.

Number of students: 19 departments, 4 schools, 4873 students (Fall 2002 enrollment)

Estimated Cost and Source of Funding:

Description	2003-2004	2004-2005	2005-2006	Funding Source
Lab Server		\$10,000		STF
Lab Server Software		\$3,500		STF
Streaming Video Server		\$13,500		STF
Real Helix Software		\$2,000		STF
Networking – Switch Module Unit – River’s Crossing	\$23,550	\$31,450		STF
Total	\$23,550.00	\$60,450.00		

Benefiting courses or activities: Adequate infrastructure is required to allow timely access to resources for students in classrooms, laboratories, and graduate student offices.

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

Location and Departmental Affiliation: COE

Aderhold Computer Laboratories: 227, 228, 618, 233, 616

Ramsey Computer Laboratories: 214

River’s Crossing Laboratories: 143, 156, 135

Number of students: 19 departments, 4 schools, 4873 students (Fall 2002 enrollment)

Estimated Cost and Source of Funding:

Description	2003-2004	2004-2005	2005-2006	Funding Source
Computer replacement – 3 year replacement	\$77,422.95	\$98,800	\$94,600	STF
Projectors – 3 year replacement	\$12,000	\$12,000	\$12,000	STF
Software upgrades and new applications – Includes shared departmental requests	\$58,415	\$38,000	\$38,000	STF
Sound systems and control panels – install or upgrade	\$11,000	\$11,000	\$11,000	STF
Printers and Scanners – 3 year replacement	\$2,600	\$5,100	\$3,200	STF
Total	\$161,437.95	\$164,900.00	\$158,800.00	

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, are 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 the 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: 102, 112, 114/115, 116/117, 119, 306, 317, 319, 401, 409, 411, 412, 417, 418, 413/432, 520, 531, 581, 601, 613, 625, 626, 627, 631

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

River’s Crossing Classrooms: G-62, G-63, GSAMS, G-64, 113, 139

Number of students: 19 departments, 4 schools, 4873 students (Fall 2002 enrollment)

Estimated Cost and Source of Funding:

Description	2003-2004	2004-2005	2005-2006	Funding Source
Aderhold Classroom technology standard including LCD Projector, Control Panel, Television, VCR, OHP, Screen, and Computer – Three Year Replacement	\$27,300	\$65,900	\$68,000	STF
Ramsey Classroom technology standard including LCD Projector, Control Panel, Television, VCR, OHP, Screen, and Computer – Three Year Replacement	\$28,600	\$15,100	\$11,100	STF

River's Cross. Classroom technology standard including LCD Projector, Control Panel, Television, VCR, OHP, Screen, and Computer – Three Year Replacement	\$21,400	\$20,600	\$8,920	STF
Total	\$77,300.00	\$101,600.00	\$88,020.00	

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 standard classroom configuration with control panels will increase productivity and access to information and create more reliable access to the appropriate technology.

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

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

Location and Departmental Affiliation:
 Aderhold Media Services (COE)
 Ramsey and River's Crossing (COE)

Number of students: 19 departments, 4 schools, 4873 students (Fall 2002 enrollment)

Estimated Cost and Source of Funding:

Description	2003-2004	2004-2005	2005-2006	Funding Source
Media Services checkout equipment such as laptops, camcorders, storage devices,	\$13,790	\$80,580	\$42,380	STF

transcribers, recorders, external hard drives, digital cameras				
IP Videoconferencing Upgrade (Cameras and CODEC)	\$19,200	0	0	STF
Information Kiosk	0	\$1600	\$1600	STF
Editing Suite – Digital Video Software upgrade, Storage Devices	\$6,300	\$2,300	\$8,300	STF
Total	\$39,290.00	\$84,480.00	\$52,280.00	

Benefiting courses or activities: COE provides a centralized checkout of equipment for students. These items, such as laptops, digital cameras, external storage devices, 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.

Videoconferencing services support students on and off campus. This unit is IP based and provides the ability to globally connect. Students participate in videoconferences with experts that bring valuable insight to instruction. Additionally, video conference options are an important part of the COE strategy for flexible delivery of instruction.

Editing suites at COE 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.

Nature of Initiative: Tier 4 – Departmental Requests

Location and Departmental Affiliation: COE Departments (See Attachment: Projects/Program Requests)

10 Project/Program Requests (Priority Ranked)
1 Special Need Request

Number of students: Horizon Live, Wireless Pilot, Wireless Pilot Laptop, and OIT Help Desk Support impact 19 departments, 4 schools, 4873 students (Fall 2002 enrollment).

Horizon Live has the potential to impact the entire UGA student population. Remaining project/program requests impact individual departments with average of 100 undergraduate and 100 graduate students each. (See Attachment: Projects/Program Requests)

Special Need Request: Digital Learning: Technology to Support Communications Sciences and Disorders

Project/Program Name	COE Priority	Department	Cost	Running Total	Funding Source
Horizon Live Archiving and Additional Seats	1	COE and UGA	\$45,000	\$45,000	STF – Project Program Request
Wireless Pilot: Networking Aderhold, Ramsey, Rivers	2	COE	\$47,600	\$92,600	STF – Project Program Request
Digital Learning: Streaming Media	3	Instructional Technology	\$10,762	\$103,362	STF – Project Program Request
Wireless Pilot – 10 Laptops	4	COE	\$19,100	\$122,462	STF – Project Program Request
Math Education Web Server Upgrade, Software and Computers	5	Math Education	\$37,501	\$159,963	STF – Project Program Request
Help Desk Support Personnel	6	COE	\$28,855	\$188,818	STF – Project Program Request
Technology Integration Initiative: Pre-Service Teachers	7	ETTC	\$30,000	\$218,818	STF – Project Program Request
Digital Learning: Science Education	8	Science Education	\$26,995	\$245,813	STF – Project Program Request
Promoting Advanced	9	Social Science Department	\$60,400	\$306,213	STF – Project

Learning Technologies in Social Science Teacher Education					Program Request
Digital Learning: Physical Education and Sports Studies	10	Physical Education and Sports Studies	\$23,095	\$329,308	STF – Project Program Request
			\$329,308.00	\$329,308	
Special Needs Request	COE Priority	Department	Cost	Running Total	Funding Source
Digital Learning: Technology to Support Communications Sciences and Disorders	1	Communications Sciences and Disorders	\$18,837	\$18,837	STF – Special Needs Request

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 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 of access, such as wireless networking, were collected and are presented as Student Technology Requests. Additional information on impact is included in project worksheets.

Special Needs Request:

The special needs request, Digital Learning Technology Support Communications Sciences and Disorders, addresses the targeted population that prepares our pre-service and practicing teachers to identify, recommend individualized education programs, and modify instruction for students with special needs. The requested items are important to adequately prepare our undergraduate and graduate students to use technology as they create modified learning opportunities for special-needs students or to facilitate patient care in various medical and school-related settings.

The COE Technology Advisory Council recommends that this request be submitted as a special need due to the extremely targeted and small community served. However, the importance of the request when considering the impact on students who receive appropriate support through special education programs in schools and medical facilities warrants special consideration for funding.

Nature of Initiative: Tier 5 – Experimentation to improve student access and use of technology

Initiatives with a focus on experimentation to improve student access and use of technology have been priority ranked in the special projects/programs under Tier 4, Departmental Requests. These projects include: Horizon Live Archiving and Additional Seats, Wireless Networking Pilot, and Wireless Laptop Pilot. The COE Technology Advisory Committee recommends consideration for funding through the Student Technology Fee Request process. See attached documentation including cover sheet, summary sheet, and individual project worksheets.

Evaluation

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

- Timely and within budget purchase, installation, and training required for hardware, software, and infrastructure
- OIT evaluation of support through online evaluation – Fall, 2003 and Spring, 2004
- Six month report to COE Technology Advisory Council
- Evaluation of COE Technology Plan – January, 2004, COE Technology Advisory Council
- Recommendations for improvement and year 2 implementation – March 2004, COE Technology Advisory Council

**Addendum
College of Education
Cover Sheet
Summary Sheet
Project Worksheets
for
Student Technology Fee
Projects/Program Requests
Special Needs Request**

**Student Technology Fee Request for 2003-04
Cover Sheet**

Form Instructions: *This form is to be completed by the appropriate Vice President, Dean, or Associate Provost.*

1. Name of Responding Organization: College of Education _____
2. Contact Individual(s): Dr. Louis Castenell, Dean _____
3. Contact Phone: 542-6446 _____
4. Contact E-Mail: lcastene@coe.uga.edu _____

Submitting the Completed Forms: Please submit the following via campus mail to:

Kirk D. Bertram
CIO and Associate Provost
EITS
Computer Services Annex 30602-1911

- Student Technology Fee Request Cover Sheet (this form)
- Student Technology Fee Request Summary Sheet
- Student Technology Fee Project or Program Request Worksheets

**Student Technology Fee Request for 2003-04
Summary Sheet**

Form Instructions: This form is to be submitted by the Vice President, Dean, or Associate Provost of the responding organization, not individual departments.

Compile the information from your **Project or Program Request Worksheets** here. List the projects in priority order, with the highest priority project listed first. Please provide a running total of the requested amount.

Project/Program Name	COE Priority	Department	Cost	Running Total	Funding Source
Horizon Live Archiving and Additional Seats	1	COE and UGA	\$45,000	\$45,000	STF – Project Program Request
Wireless Pilot: Networking Aderhold, Ramsey, Rivers	2	COE	\$47,600	\$92,600	STF – Project Program Request
Digital Learning: Streaming Media	3	Instructional Technology	\$10,762	\$103,362	STF – Project Program Request
Wireless Pilot – 10 Laptops	4	COE	\$19,100	\$122,462	STF – Project Program Request
Math Education Web Server Upgrade, Software and Computers	5	Math Education	\$37,501	\$159,963	STF – Project Program Request
Help Desk Support Personnel	6	OIT	\$28,855	\$188,818	STF – Project Program Request
Technology Integration Initiative: Pre-Service Teachers	7	ETTC	\$30,000	\$218,818	STF – Project Program Request
Digital Learning: Science Education	8	Science Education	\$26,995	\$245,813	STF – Project Program Request

Promoting Advanced Learning Technologies in Social Science Teacher Education	9	Social Science Department	\$60,400	\$306,213	STF – Project Program Request
Digital Learning: Physical Education and Sports Studies	10	Physical Education and Sports Studies	\$23,095	\$329,308	STF – Project Program Request
			\$329,308.00	\$329,308	
Special Needs Request	COE Priority	Department	Cost	Running Total	Funding Source
Digital Learning: Technology to Support Communications Sciences and Disorders	1	Communications Sciences and Disorders	\$18,837	\$18,837	STF – Special Needs Request
Total			\$18,837	\$18,837	

Student Technology Fee for 2003-2004 Project or Program Request Worksheet

1) Project or Program Name: Horizon Live Archiving and Additional Seat Request

2) Department or Unit:

The Office of Information Technology on behalf of the Department of Instructional Technology and the Department of Counseling within the College of Education.

(Please note: This request, if approved, would benefit the entire University of Georgia community and not merely two departments in the College of Education. More information about this is available in section 4 below.)

3) Brief description of request:

The departments of Instructional Technology and Counseling would like to request an additional 40 seats be purchased for the Horizon Live Server at UGA. Currently the server is licensed for only 25 concurrent use seats. This would bring the total to 65. Concurrent use means that 25 seats are available 24 hours a day, 7 days a week. An unlimited number of users can be added to the system, however currently, only 25 can use it at one time. The Department of Instructional Technology is using this system in the evenings during the week as a distance learning delivery tool. Counseling is considering the use of this tool in their training of pre-service counselors and as a way of bringing counseling programs from other locations around the country together for collaborative ventures.

4) Evidence of student need, starting with number or percentage of students or courses served.

This resource has been pilot tested by both the School of Veterinary Medicine and the College of Education. Currently, these are the only two organizations using this resource. Potential exists to allow this resource to be utilized by other colleges and departments on campus. However, in order for this to occur, more resources must be allocated to the existing infrastructure (increasing the number of licensed seats, account generation, course generation, increasing support, etc.)

There are a total of 89 IT students "attending" class in the evenings each week using Horizon Live this term (Spring). Class size had to be limited this Spring due to the 25 user limit. If we examine numbers of students Instructional Technology served in the Fall of 2002, the number of students needing to access HL would have been 151 (see table 1). Also, please note that all of the courses taught in the fall had over 25 students in them.

Table 1 (Potential IT use of Horizon Live – Fall '02)

Class	Course Title	Number of Students Fa-02
EDIT 6150	Introduction to Computer-Based Education	33
EDIT 6300	Administration of Media Programs	34
EDIT 6320	Information Technology	38
EDIT 6400	Emerging Applications in Teaching, Learning and Tech	46

Table 2 (Potential and Actual IT use of Horizon Live – Spring '03)

Class	Course Title	Number of Students Sp-03
EDIT 6170	Instructional Design	22 (Actual)
EDIT 6400	Emerging Applications in Teaching, Learning and Tech	12 (Actual)
EDIT 7500	Technology Enhanced Classroom Environment	31 (Potential)
EDIT 6360	Information Literacy in School Media Programs	40 (Potential)
EDIT 6190-6210	Instructional Technology Studio	46 (Actual)
ERSH 6300	Applied Statistical Methods in Education	15 (Actual)

The Department of Counseling has expressed interest in using this service to bring other counseling departments, faculty, and students together from around the country and internationally in support of their undergraduate and graduate coursework. They have several grants that this technology could help serve as well.

5) Total Cost: \$45,000

6) Detailed Budget:

Item Requested	No. Requested	Unit Cost	Total Cost
Additional Seats	40	\$1,000	\$40,000
Archiving **	1 time fee	\$5,000	\$5,000
Total Cost			\$45,000

7) Additional funds available for this project: In-kind contributions will be made in-terms of staff support for both faculty and students for College of Education events held on the Horizon Live server.

8) Accessible to students with disabilities? Yes. This product is 508 compliant and was chosen as a result of its compliance with federal regulations.

**** 9) Additional information:** The archiving option is an important feature. This feature allows us to offload archived course sessions (all class sessions can be archived) and place them on other servers or even inside WebCT courses for student's review.

Currently, the students wishing to view archives can view them through Horizon Live, however they take up a valuable seat on the server for as long as they are viewing the archive. There is no easy way for faculty to boot those watching archives. Students trying to attend class at their scheduled time would not be able to access the system if the seat limit is exceeded.

Please note: When this request went before the 15 member OIT/COE Student Tech Fee Advisory Board, the board discussed the potential of this technology and requested that we increase our original request of 25 seats to 40.

This was done at the expense of other grants on the table for Student Tech Fee Grant Allocations. Horizon Live is a technology that many COE departments can and will take advantage of, including but not limited to Teacher Education, Counseling, and Instructional Technology.

Student Technology Fee for 2003-04

Project or Program Request Worksheet

Form Instructions: Complete one worksheet for each project or program request. This request may include multiple budget items. Submit this form to the appropriate Vice President, Dean, or Associate Provost.

1. Project or Program Name: Wireless Pilot - COE

2. Department or Unit: OIT – and COE

3. Brief description of request:

The College of Education requests funding to begin the implementation of wireless access to information. Our students need to be able to access information in multiple locations and to participate in campus wide wireless initiatives such as PAWS. Our goal is to add wireless connectivity to Aderhold, River's Crossing, and Ramsey as part of our three year technology plan. OIT will design and install wireless pockets that meet the Univ. standard specification.

Wireless computing is rapidly expanding in today's schools. It is our responsibility to create an environment at COE where future teachers and administrators can experience the technology and curriculum integration that is expected in 21st century classrooms.

The proposal includes wireless routers, access points, and cabling/mounting.

4. Evidence of student need, starting with number or percentage of students or courses served: Approx. 5000 graduate and undergraduate students per semester plus students from other schools with access to UGA wireless network.

Our college must prepare teachers and administrators with the technical skills to meet standards identified by NCATE, the International Society for Technology in Education (ISTE) and discipline specific professional organizations such as NCSS. Our graduating teachers must be able to facilitate students as they learn the technology skills required to be successful in work and future educational options. These skills include basic computer skills, productivity skills, communication skills, information literacy skills, problem solving skills, and social concepts and ethics. COE cannot provide an environment where future teachers and administrators can learn content and methods required in technology integrated teaching practices without an ongoing investment in technology and resources.

Wireless technology is creating an information rich educational environment with flexible access to resources. COE requests the funding to begin creating this wireless environment here in order to prepare pre-service and practicing teachers for the next phase of instructional technology adoption in schools.

5. Total cost: \$47,600

6. Detailed Budget – Include all items required for this project or program:

Item requested	Number requested	Unit Cost	Total Cost
Wireless Routers: Bluesocket WG-2000	1	\$10,000	\$20,000
Bluesocket WG-1000	2	\$ 5,000	
Access Points: Enterasys Access Point with Security Box and Antenna 4 at Aderhold, 2 at River's Crossing, 2 at Ramsey	24	\$1,000	\$24,000
Cabling and Mounting	24	\$150	\$3,600
Total			\$47,600.00

Use additional pages as necessary.

7. Briefly describe additional funds available for this project, if any: _____

In-Kind: OIT will design, support install, and maintain this system. _____

8. Will this project be accessible to students with disabilities? If not, please explain. _____
 Yes. The very nature of a flexible computing environment makes use of technology more accessible in the building as resources are not tied to a lab or classroom.

9. Please attach any other supporting information regarding this request.

NA

Student Technology Fee for 2003-04

Project or Program Request Worksheet

Form Instructions: Complete one worksheet for each project or program request. This request may include multiple budget items. Submit this form to the appropriate Vice President, Dean, or Associate Provost.

1. Project or Program Name: Digital Learning: Streaming Media
2. Department or Unit: Department of Instructional Technology, College of Education
3. Brief description of request: The Department of Instructional Technology requests funding for a video streaming server. This request supports the COE Tier 2 Technology Strategy: Equipment/technology to support student instruction and student presentations. Streaming media supports the department and college online classes. Video clips, presentations, special speakers, student work can be digitized and streamed from this server providing access to multimedia content from any location with access to the Internet. Additionally, providing the opportunity for our pre-service and practicing teachers to develop, integrate, and post this type of resource is critical to their understanding of technology integration into teaching practices. This server would take our college and department to the next level of technology adoption.
4. Evidence of student need, starting with number or percentage of students or courses served: The Department of Instructional Technology serves over 200 undergraduate and graduate students. However, the web-based access to these resources can benefit all students (5000) in the college as they learn to incorporate media into the practice of resource based teaching.

This department has led the college in developing online courses in asynchronous and synchronous environments. Additionally, students graduating with media and/or instructional technology degrees through this department are charged with leading technology initiatives in schools. It is our responsibility to prepare them with the latest technology opportunities so that they can lead the teachers in their future work.

Students participating in the highly regarded Studio classes create portfolios of work that demonstrate what they have learned in the design and development of instructional units. These projects are too large in size to share via e-mail or disk. By storing the projects in a streaming environment, students can collaboratively share their work and provide examples to future technologists and teachers.

Streaming media is an important part of resource based teaching and will increase in use as textbooks are converted to digital delivery. Our future teachers and administrators need to know how to develop and store streaming media as well as how to integrate this resource into teaching methodology.

COE and the Department will create a streaming environment that is based on University streaming media standards.

5. Total cost: \$10,762 _____

6. Detailed Budget – Include all items required for this project or program:

Item requested	Number requested	Unit Cost	Total Cost
Dell PowerEdge 2500 Streaming Server	1	\$7,763.00	\$7,763.00
Streaming Software – Recommend Supporting Real Media Development and Streaming to meet UGA Standard		\$2,999	\$2,999
Total			\$10,762.00

Use additional pages as necessary.

7. Briefly describe additional funds available for this project, if any: _____

In-Kind: OIT will provide support for install, training, and maintenance. The Dept. of Instructional Technology will provide support for digitization of content and management of streaming media. _____

8. Will this project be accessible to students with disabilities? If not, please explain. _____

Students with disabilities can access media developed and streamed from this server through technology stations provided by the COE that have accessibility options for students. These stations are located at Aderhold, Ramsey, and River’s Crossing. Additional assistance for students can be provided through the accessibility options available on PCs that modify keyboard and mouse movement and sensitivity. _____

9. Please attach any other supporting information regarding this request.

NA

Student Technology Fee for 2003-04

Project or Program Request Worksheet

Form Instructions: Complete one worksheet for each project or program request. This request may include multiple budget items. Submit this form to the appropriate Vice President, Dean, or Associate Provost.

1. Project or Program Name: Wireless Pilot - COE

2. Department or Unit: OIT – and COE

3. Brief description of request:

The College of Education requests funding to begin the implementation of wireless access to information. Our students need to be able to access information in multiple locations and to participate in campus wide wireless initiatives such as PAWS. Our goal is to add wireless connectivity to Aderhold, River's Crossing, and Ramsey as part of our three year technology plan. OIT will design and install wireless pockets that meet the Univ. standard specification.

Wireless computing is rapidly expanding in today's schools. It is our responsibility to create an environment at COE where future teachers and administrators can experience the technology and curriculum integration that is expected in 21st century classrooms.

This proposal includes 10 wireless laptop computers that will be checked out to students as part of the wireless networking pilot. Students will use the laptops for collaborative work in classrooms, offices, and other instructional spaces that have not traditionally had network access for more than one user.

4. Evidence of student need, starting with number or percentage of students or courses served: Approx. 5000 graduate and undergraduate students per semester plus students from other schools with access to UGA wireless network.

Our college must prepare teachers and administrators with the technical skills to meet standards identified by NCATE, the International Society for Technology in Education (ISTE) and discipline specific professional organizations such as NCSS. Our graduating teachers must be able to facilitate students as they learn the technology skills required to be successful in work and future educational options. These skills include basic computer skills, productivity skills, communication skills, information literacy skills, problem solving skills, and social concepts and ethics. COE cannot provide an environment where future teachers and administrators can learn content and methods required in technology integrated teaching practices without an ongoing investment in technology and resources.

Wireless technology is creating an information rich educational environment with flexible access to resources. COE requests the funding to begin creating this wireless

environment here in order to prepare pre-service and practicing teachers for the next phase of instructional technology adoption in schools.

5. Total cost: \$19,100 _____

6. Detailed Budget – Include all items required for this project or program:

Item requested	Number requested	Unit Cost	Total Cost
Laptops	10	\$1560	\$16,600
Software – MS Office, Virus Protection, OS	10	\$100	\$1000
Charging Station/Cart	1	\$1500	\$1500
Total			\$19,100.00

Use additional pages as necessary.

7. Briefly describe additional funds available for this project, if any: _____

In-Kind: OIT will design, support install, and maintain this system. _____

8. Will this project be accessible to students with disabilities? If not, please explain. _____

Yes. The very nature of a flexible computing environment makes use of technology more accessible in the building as resources are not tied to a lab or classroom.

Additionally, the Windows OS allows accessibility options for modifications to keyboard and mouse speed and sensitivity.

9. Please attach any other supporting information regarding this request.

NA

Student Technology Fee for 2003-04

Project or Program Request Worksheet

Form Instructions: Complete one worksheet for each project or program request. This request may include multiple budget items. Submit this form to the appropriate Vice President, Dean, or Associate Provost.

1. Project or Program Name: Math Education: Web Server Upgrade _____

2. Department or Unit: Math Education, College of Education, Contact: Pat Wilson, pwilson@coe.uga.edu _____

3. Brief description of request:

The Mathematics Education Department has developed Web-based support for student work, communication, and project distribution. Our request is to upgrade the current server to a Mac OS X with OS 10.15 software. This hardware and software is needed to bring our server up to date as almost all new Macintosh developments are running OS X. Additionally, the purchase of networked software that can be distributed to all math education classrooms and learning stations is a good return on the investment for the software.

This request also includes calculators and wireless Windows computers. K-12 schools are developing technology rich classroom opportunities so that students can learn 21st century skills. These skills include computer literacy, information literacy, productivity skills, communication skills, and computational skills. The COE must prepare new and practicing teachers to be able to integrate technology into their teaching practices and we must have the technology, software, and access to resources to provide this opportunity.

4. Evidence of student need, starting with number or percentage of students or courses served:

There are approximately 100 undergraduate and 100 graduate students who make extensive use of specialized mathematics education classrooms, software, hardware, and networks. This use impacts every course the students take in our program. In particular, students make extensive use of web site construction and use the Mathematics Education server where adequate storage is available for the graphics in Maple, Geometer's Sketchpad, Fathom, Graphic Calculator 3.0 and their web page construction.

The Department of Mathematics Education incorporated a technology requirement in our teacher education programs in 1970. Over the years we have collaboratively developed facilities, curriculum, and courses to provide our students the most outstanding opportunities available in mathematics education so as to make the technology an integral part of their doing mathematics investigations, learning mathematics, and teaching mathematics.

5. Total cost: \$37,501 _____

6. Detailed Budget – Include all items required for this project or program:

Item requested	Number requested	Unit Cost	Total Cost
MAC OS X Server with OS10.15 Software, Two HD modules and 1GB memory. WebStar 5.0 and MS Office OS X	1	\$5369	\$5369
Fathom – Software package for open-ended statistical problems. Deluxe College Campus Network License.	1	\$2895	\$2895
Graphic Calculator/NuCalc update. Departmental License.	1	\$500	\$500
Wireless Lab – 15 Windows Laptops, cart, base station	1	\$26037	\$26037
Classroom set (20) TI-89 Calculators.	20	\$135	\$2700
Total			\$37501.00

Use additional pages as necessary.

7. Briefly describe additional funds available for this project, if any: _____

OIT will support the install, training, and maintenance. Additionally, technology stations for students with special needs have been purchased by COE to support departmental projects when necessary. _____

8. Will this project be accessible to students with disabilities? If not, please explain. _____

Windows operating system offers accessibility options that can modify keyboard and mouse speed and sensitivity. Additionally, special stations with accessibility options can be used to support students with special needs. The materials can be access on these special stations since the software, etc. are networked and stored on a server. _____

9. Please attach any other supporting information regarding this request.

NA

Student Technology Fee for 2003-04

Project or Program Request Worksheet

Form Instructions: Complete one worksheet for each project or program request. This request may include multiple budget items. Submit this form to the appropriate Vice President, Dean, or Associate Provost.

1. Project or Program Name: Help Desk Support

2. Department or Unit: OIT – College of Education

3. Brief description of request: COE had identified strategies for supporting instructional technology. These strategies include the support of instructional computer labs, centralized check-out of equipment, classroom technology support, departmental requests for specific programs/disciplines, and new technologies such as wireless. These initiatives require qualified support staff for students and faculty in order to achieve the maximum return on the investment in hardware and software.

OIT and COE have demonstrated the value of client support through the funding of full-time Help Desk support and student workers. However, the demand for more technology and access to information for instruction has created the need for 1 additional full-time support person who will be responsible for the training, maintenance, and installation of technology used for instruction.

4. Evidence of student need, starting with number or percentage of students or courses served: Number of students: 4,500, three locations: Aderhold, River's Crossing, and Ramsey

Currently, the COE supports 9 computer labs, a standard of technology in every classroom, videoconferencing, and networking infrastructure. OIT recommends that additional support would improve the training of new students, the installation and training required of new technology in classrooms and labs, and increase student use of technology. Additionally, this support person could improve the delivery of application specific support such as WebCT.

5. Total cost: \$28,855

6. Detailed Budget – Include all items required for this project or program:

Item requested	Number requested	Unit Cost	Total Cost
Help Desk Support Person – 40 hours per week	1	Annually	\$28,855

Use additional pages as necessary.

7. Briefly describe additional funds available for this project, if any: _____

In-Kind: The COE will provide the computer, office space, and training for this additional person. _____

8. Will this project be accessible to students with disabilities? If not, please explain. _____

Yes. This individual will support the specialized technology stations for students with special needs and assist students in the modification of Windows and MAC OS accessibility options when necessary.

9. Please attach any other supporting information regarding this request. See Job Description

Personnel Request Justification

The COE Office of Information Technology supports computer labs, classroom technology, media services, departmental technology, and experimentation and innovation pilots as identified in the 5-tiered strategies recommended by the advisory council. This support unit requires knowledgeable staff with skill sets in a variety of systems, software, hardware, and networking infrastructure. The current staff has added responsibilities to support the increasing number and use of technology applications.

This project request for one new staff member for Help Desk support would improve the return on the increasing investment in technology. Support and training for users, especially new students to the college, would improve our customer service.

The increase in Help Desk support would allow existing staff to focus on acquiring new skills and improve OIT's contribution to the mission of the College of Education.

Student Technology Fee for 2003-04

Project or Program Request Worksheet

Form Instructions: Complete one worksheet for each project or program request. This request may include multiple budget items. Submit this form to the appropriate Vice President, Dean, or Associate Provost.

1. Project or Program Name: Technology Integration Initiative: Pre-service Teachers _____

2. Department or Unit: Elementary Education Department and the ETTC: College of Education, Contact John Wiggins, Jwiggins@coe.uga.edu _____

3. Brief description of request:

The purpose of this proposal is to request funds to continue the existing technology program for the Elementary Education Department's student teachers. The current program is the result of a special partnership between the Elementary and Instructional Technology Departments. This partnership is supported by 65 laptop computers, extensive software titles and an intense professional development course. At least 30 of the computers are very old and need to be replaced in order to continue the program into the coming school year. New laptops committed to support this program would be maintained by the ETTC. These laptops would be available for other uses within the COE whenever they are not being used by this program. This program was listed in the recent NCATE report as a vital component of the technology professional development for the COE pre-service teachers as stated in the following paragraph: *"To integrate the college's pre-service training with state-wide technology training, the college initiated a pilot program in 1999-2000 that gave 26 pre-service elementary education candidates the same technology integration professional development that state in-service teachers are receiving state-wide. This experience enhanced the pre-service teacher's job opportunities and eliminated the requirement that they receive this training after employment. Given the success of the pilot project, Elementary Education is seeking funding to extend the program in the near future."*

4. Evidence of student need, starting with number or percentage of students or courses served: 30 candidates per semester with new computers, opportunity for 65 overall each year.

The continuation of this quality program is vital to the COE's commitment to producing the most qualified teachers. Training received by the students has proven to enhance their student teaching experience, as well as benefit them in job interviews and placements. Several students share their thoughts about the InTech experience: *"I like that I am getting [Intech] certified before I graduate or even have a teaching job."* *"InTech gave us lots of valuable resources for the classroom...."* *It was a worth-while experience."* *I spent time thinking about incorporating technology into my lessons; I discovered that it really wasn't that challenging."* Mentor teachers in the field have been extremely complimentary and encouraging in the technology skills the students have

brought into their classrooms; students in the schools have benefited from the interesting lessons created by the student teachers to fulfill their technology assignments.

The laptop computers are a vital component of the existing program. They allow the students to develop four lesson plans at home and to implement these technology integrated lessons with their students in the elementary classrooms. These lessons can be implemented using the technology that currently exist in the PreK-5 classrooms or is found on the laptop computer. Many of the PreK-5 classrooms have adequate technology but some do not have what the student teacher needs to conduct the lesson. The laptop enhances the classrooms existing technology for the student teacher. This increases the likelihood that the student teachers will continue to use technology in the teaching process after they graduate. Several of the students expressed the importance of the laptops in the following quote: *“As far as the laptop, I absolutely love it. I have used it as a part of the lessons I conducted in class and used it to create things for my UGA classes as well.”*

The laptops allow the student teachers to continue at home their exploration of the software that is introduced during the course. Also, the student teachers are given assignments to accomplish outside the hours of the course and the laptops allow them to be successful.

5. Total cost: \$30,000 _____

6. Detailed Budget – Include all items required for this project or program:

Item requested	Number requested	Unit Cost	Total Cost
PC Laptop	30	\$1000	\$30,000
Total			\$30,000.00

Use additional pages as necessary.

7. Briefly describe additional funds available for this project, if any: In-kind: _____

ETTC will provide the instructors, software, professional development training and support required of this project. The content of the Intech program has already been developed, field tested and approved by the PSC. Total estimated cost is \$27,500.00 per year. _____

8. Will this project be accessible to students with disabilities? If not, please explain. _____

The choice of the PC with Windows OS provides accessibility options for users. These options enable modification to keyboard and mouse speed and sensitivity. Additionally, technology stations are provided at River’s Crossing to support students with special needs and could be utilized to support this program when necessary. Also, the InTech curriculum has been written to accommodate students with disabilities. _____

9. Please attach any other supporting information regarding this request.

NA

Student Technology Fee for 2003-04

Project or Program Request Worksheet

Form Instructions: Complete one worksheet for each project or program request. This request may include multiple budget items. Submit this form to the appropriate Vice President, Dean, or Associate Provost.

1. Project or Program Name: Promoting Advanced Learning Technologies in Social Science Teacher Education _____

2. Department or Unit: Social Science Education: College of Education, Contact: Yuriko Wellington, ywelling@coe.uga.edu

3. Brief description of request:

This request consists of laptop computers equipped with video capture and videoconferencing options to provide flexibility, collaboration, and communication in the Social Science program. This request will literally allow students to connect to faculty and each other by using videoconferencing, streaming video and video portfolios.

This technology will allow students to:

- understand the ethical, cultural, and societal issues related to technology
- use technology tools to enhance learning, increase productivity, and promote creativity
- use technology to communicate, collaborate, publish, and interact with peers, experts and other audiences
- use technology to locate, evaluate, and collect information from a variety of sources
- use technology resources for solving problems and making informed decisions
- create electronic portfolios to demonstrate that they have met the standards of the GSTEP Teacher Preparation Matrix.

4. Evidence of student need, starting with number or percentage of students or courses served: The Department of Social Science Education currently serves approximately 100 undergraduate students in programs designed to prepare them for initial certification in Middle and Secondary School Social Studies. Another 40 students are prepared for initial and continuing certification through the M.Ed. program, and 80 students per semester are serviced through the social studies curriculum and methods courses offered by our faculty in the early childhood and middle school certification program for a total of 220 students. In order to prepare these students to fully meet the goals and standards established by NCATE, NCSS, the State Board of Regents and the Professional Standards Commission, these students need to be able to use advanced technology as an instructional tool, as an integrative component of their curricular

content, and as a professional planning, evaluation and collaboration tool. This will also facilitate our students in meeting the requirements of House Bill 1187.

This request will provide technology and resources so that pre-service teachers in field experiences will be able to:

- use the technology to document their teaching in the field for building their electronic portfolios to meet graduation requirements
- document teaching in the field for self-reflection and assessment
- conference using video playback of teaching as an instructional analysis tool to improve teaching praxis; use the digitized technology to capture aspects of their lessons for debriefing and portfolio development
- Internet conference with professors and field experts from other school systems world-wide.

The technology will allow students in their role as planners of instruction to:

- counteract geographic isolation and cultural provincialism by critically examining the innovations and standards of other states in the area of social science education
- enhance the students' ability to use global resources that can increase the quality of their instructional thinking and planning
- use the WWW to identify instructional resources from a variety of primary data sources such as museum collections, historical archives and research databases, and integrate it into their teaching
- apply this technology directly to the educational setting in which they are interning by constructing lessons in advance using appropriate links and activities, and videotaping teaching sessions for later evaluation.

5. Total cost: \$60,400 _____

6. Detailed Budget – Include all items required for this project or program:

Item requested	Number requested	Unit Cost	Total Cost
Macintosh Ibooks – Required to allow flexibility to take on location	30	\$1700	\$51000
Digital videocameras	5	\$600	\$3000
Microsoft Office Licenses and Virus Protection Software	30	\$100	\$3000
Base Stations	3	\$300	\$900
IBOT Critter Cams	5	\$100	\$500
1 30 Unit laptop storage cart	1	\$2,000	\$2,000
Total			\$60,400.00

Use additional pages as necessary.

7. Briefly describe additional funds available for this project, if any: _____

IN-Kind:

OIT staff will support the installation, training, and maintenance of this technology request.

Additionally, technology stations with accessibility options will provide options for students with special needs.

8. Will this project be accessible to students with disabilities? If not, please explain. _____

Yes. Technology stations at the college can be used to support students with special needs as they create the modules to share through web-based distribution.

Accessibility options in MAC OS allow some modification to keyboard and mouse speed and sensitivity. _____

9. Please attach any other supporting information regarding this request. NA

Student Technology Fee for 2003-04

Project or Program Request Worksheet

Form Instructions: Complete one worksheet for each project or program request. This request may include multiple budget items. Submit this form to the appropriate Vice President, Dean, or Associate Provost.

1. Project or Program Name: Digital Learning: Physical Education and Sports Studies

2. Department or Unit: Department of Physical Education and Sport Studies: Dr. Rose Chepyator-Thomson (jchepyat@coe.uga.edu) and Michael Lomax (mlomax@coe.uga.edu).

3. Brief description of request: The proposal we have written is intended to enhance undergraduate and graduate student learning. We are requesting 5 computers for students in the Department of Physical Education and Sport Studies. Students will use these computers during and after instruction to design and conduct technology based program development that integrates field and web-based information using PowerPoint Presentations. The students will work collaboratively to share information they have created using multimedia computers and digital peripherals. Additionally, the computers will be connected to a server allowing students to share created work through the Internet. Students will develop new skills as they create and interact with digital-based content knowledge

4. Evidence of student need, starting with number or percentage of students or courses served:

This request will serve 94 sport studies students, 82 physical education students and 74 graduate students.

Technology is changing the ways students learn. This request will enable students to visit public schools, investigate curriculum development, and document what they see. This documentation can be stored, archived, and shared via servers and Internet access.

Students in upper level classes can conduct research in the schools, particularly in the area of fitness. There is much concern about obesity evidenced by the interest of professional associations, private and government organizations to promote healthy eating and life habits. This project will enable students to collect data through digital images to analyze student-work. Further, our students will learn how to integrate Internet-based information into ongoing classroom activities in physical education and sport studies. Students will learn how to create lessons using computers and software such as Excel, PowerPoint, and video editing software.

Our current students have very little knowledge of how to integrate technology into classroom instruction. However, the awareness and use of computers is paramount to

their successful participation in today's classroom. Internet resources can be integrated into the development of K-12 gymnasium activities such as learning how to teach fitness activities. Students will work collaboratively to investigate real world issues as related to fitness among youth and other areas of physical activity.

Our request for this technology is needed to create the opportunity for UGA graduates to learn the skills required of their future work. For example, the National Standards in Sport and Physical Education require our graduates to be knowledgeable about the use of technology to enhance student learning.

5. Total cost: \$23,095 _____

6. Detailed Budget – Include all items required for this project or program:

Item requested	Number requested	Unit Cost	Total Cost
PC Computers	5	\$1400	\$7000
HP Scanners	5	\$149	\$745
Digital Still Cameras	5	\$341	\$1705
MS Office w/license	8	\$75	\$600
HP Color Networked Printer	1	\$2600	\$2600
Drop cords for network installation	5	\$150	\$750
Drop cord for network printer	1	\$150	\$150
Laptop Computers	3	\$1950	\$5850
Pasco Xplorer Data Logger	5	\$149	\$750
Heart Rate Sensors	5	\$72	\$375
EKG Sensor	5	\$145	\$725
Respiration Sensor	5	\$169	\$845
Sport Discus	1	\$1000	\$1000
Total			\$23095.00

7. Briefly describe additional funds available for this project, if any: _____

In – Kind: OIT support staff will assist in installation, training, and maintenance.
COE technology stations with adaptive technology will support students with disabilities.
OIT Web Services will support storing and sharing of data.
No additional funds.

8. Will this project be accessible to students with disabilities? If not, please explain. _____

The selection of Windows OS and PCs provides options to increase access to students with disabilities through the accessibility features that modify keyboard and mouse control. Additionally, a COE computer station specifically designed for students with disabilities can be used for the creation of content that can be stored on the server. This technology can be used to support students participating in the sport studies and physical education program on an as needed basis. _____

9. Please attach any other supporting information regarding this request. NA

Special Needs Request

Special Needs Request:

The special needs request, Digital Learning Technology Support Communications Sciences and Disorders, addresses the targeted population that prepares our pre-service and practicing teachers to identify, recommend individualized education programs, and modify instruction for students with special needs. The requested items are important to adequately prepare our undergraduate and graduate students to use technology as they create modified learning opportunities for special-needs students or to facilitate patient care in various medical and school-related settings.

The COE Technology Advisory Council recommends that this request be submitted as a special need due to the extremely targeted and small community served. However, the importance of the request when considering the impact on students who receive appropriate support through special education programs in schools and medical facilities warrants special consideration for funding.

Student Technology Fee for 2003-04

Project or Program Request Worksheet

Form Instructions: Complete one worksheet for each project or program request. This request may include multiple budget items. Submit this form to the appropriate Vice President, Dean, or Associate Provost.

1. Project or Program Name: Digital Learning: Technology to Support Communication Science and Disorders

2. Department or Unit: Department of Communication and Science Disorders
Contacts: Richie Andreatta (andreatt@coe.uga.edu) and Anne Van Kleeck (avk@coe.uga.edu).

3. Brief description of request: The Dept. of Communication and Science Disorders offers a broad-based undergraduate degree preparing students for graduate education in speech-language pathology, audiology, or education of students who are deaf/hard of hearing or for careers in a wide variety of related research, biomedical or educational fields. The Educational Specialist Degree is offered in Speech-Language Pathology. The Doctor of Philosophy degree is available in Audiology, Education of Students who are Deaf/Hard of Hearing and Speech-Language Pathology. The Ph.D. program offers highly individualized programs of study beyond a basic core of research methodology.

Technology has provided a critical means for improving the diagnosis, teaching practices, and training of speech and hearing professionals. This request includes hardware and software items that are routinely used other training sites and professionally in practice. The requested items are important to adequately prepare our undergraduate and graduate students to use technology as they create modified learning opportunities for special needs students or to facilitate patient care in various medical and school-related settings.

4. Evidence of student need, starting with number or percentage of students or courses served: Approx. 100 undergraduate and 60 graduate students. These numbers encompass out entire student body. This technology can also support all teacher candidates as they meet special education requirements for teacher certification.

I. HARDWARE-BASED REQUESTS

Analog Real-time Oscilloscope: All students in the CMSD graduate program will learn to use and interact with standard analog oscilloscopes as part of a comprehensive computer-based system for the physiological assessment of speech and voice. This request will satisfy two important conditions. First, these devices will allow our computer-based physiological diagnostic systems to double as real-time biofeedback system for patient care. Our students would greatly benefit professionally by learning to use and incorporate physiological biofeedback therapy strategies with clients possessing suitable disorders. Secondly, the field of speech and hearing is becoming increasingly technology driven. Oscilloscopes are standard and basic equipment in virtually all otolaryngology clinics, rehabilitation centers, and vocal training facilities. As such, it is an imperative that are students receive direct practice with the technical equipment they will commonly find in the field. The training our students will receive with this device will substantially increase their skills and marketability upon graduation.

ADinstruments Powerlab Advanced Physiology Bundle: The ADI Advanced Physiology Bundle is a computer-based system of software and hardware peripherals that include material for the participation and demonstration of human electromyography, respiratory physiology, nerve conduction, and basic metabolic monitoring. The ADI Physiology bundle is specifically designed for student use, providing an easy user interface and safe means of performing or demonstrating basic physiological assessments. Students often find that the mechanisms of physiology are very difficult to understand from a printed page or from lecture. As such, interactive experience with basic physiological assessment techniques is considered crucial for the complete preparation of our speech-language pathology and audiology student body. This hardware/software station will be used in several of our undergraduate and graduate courses including, CMSD 4120, CMSD 4140, CMSD 4150, CMSD 4800/6800, and CMSD 6750. The interactive demonstrations by the instructor and self-direct student practice of physiological concepts should substantially enhance the experiential nature of the class and provide for a more authentic learning environment. Funds are being requested only for the physiology software/hardware system. The computer system upon

which the ADI PowerLab bundle will operate will be supplied by the department or clinic.

Otoacoustic Emissions (OAE) upgrade to Grason Stadler Model “Audera”

equipment: An upgrade is needed for the SSEP unit to utilize OAE testing. This equipment is used to supplement student audiology experiences as they complete course requirements. Students can learn enhanced infant testing techniques for early identification of hearing loss and provide our students exposure to the latest audiologic technology.

Laptop Computer: This notebook computer will be used in our clinical training program to teach graduate students use of specialized software packages that are routinely implemented in internal and external clinical settings. A laptop computer is thus considered a basic and essential component necessary to run software packages already in our possession. Students will gain direct experience with and expertise in the incorporation of technology-based treatment goals with traditional therapy strategies. The use of this laptop will increase the client/student’s access to computer programs for therapeutic training. In addition, since laptops are easily transported, the requested item will also allow for greater flexibility in room usage a site location during the student’s clinical training.

Speech Viewer III for Windows Complete Kit with Microphone: The Speech Viewer III provides a visual display of acoustic characteristics of speech to provide feedback to clients for improving pitch, loudness, and voicing. Students will be able to use this program during clinical practicum to facilitate treatment and will be able to apply these skills in work settings after graduation. Use of the program on a notebook computer will increase access and allow greater flexibility for use in various treatment rooms.

II. SOFTWARE-BASED REQUESTS

NEUROteacher – Five user software license is requested: The visualization and internalization of neuroanatomical structures and physiology is perhaps one of the most difficult challenges our students face during their training. All students in the CMSD graduate program are required to take CMSD 6800 Neural Bases of Speech and Language and other anatomically and physiologically-related courses (such as neuromotor speech disorders, neurogenic language disorders, etc) to complete national degree requirements. These courses incorporate neuroanatomical and neurophysiological content that would benefit strongly from the visual display of state of the art 3D graphics and animations. The requested software is specifically designed as a pedagogical tool that easily allows the students to visualize neural structures and manipulated these images in real time during instruction or self-directed study. An external DVD-ROM device is also requested to allow maximum use of the software through multiple pre-existing computers and laptops.

Case Studies in Communication Disorders – Instructors Version (2-Volume CD-Rom Package): This software will provide graduate students experience in the diagnosis and

treatment of a variety of language disorders through interactive case study profiles. This material is used to support CMSD 6700, 4500, 6540, and 7040 through video clips of conversations and narratives associated with various language disorders. The kit also provides case history information, test results, and language transcripts specifically developed for instructors and classroom presentations.

5. Total cost: \$18,837 _____

6. Detailed Budget – Include all items required for this project or program:

Item requested	Number requested	Unit Cost	Total Cost
Analog Real-time Oscilloscope & accessories	1	\$ 900	\$ 900
NeuroTeacher w/ external DVD-ROM	1	\$2,660	\$2,660
Speechviewer III	1	\$1,065	\$1,065
AD Instruments PowerLab	1	\$5,168	\$5,168
OAE	1	\$6900	\$6,900
Laptop Computer	1	\$1950	\$1950
Case Studies	1	\$194	\$194
Total			\$18,837.00

Use additional pages as necessary.

7. Briefly describe additional funds available for this project, if any: _____

In-Kind: OIT will support the install, training, and maintenance of software and hardware.

8. Will this project be accessible to students with disabilities? If not, please explain. _____

The focus of this request is to create a learning environment that develops qualified professionals who will lead schools and other educational and medical organizations in the identification, treatment, program modification, and evaluation of individuals with communication disorders and/or special needs. _____

9. Please attach any other supporting information regarding this request.

NA

2003 COE Technology Advisory Council

Barry Robinson – OIT

Douglas Holschuh – Student Representative

Jake Klerlein – Student Representative

John Hoge – School of Teacher Education

Lloyd Rieber – School of Professional Studies

Sandi Glass- OIT

Roger Hill – School of Leadership and Lifelong Learning

Judy Milton – Student Representative

Kristi Leonard – OIT

Scott Smith – OIT

Keith Blankenship –OIT

Paul Schlag – Student Representative

Kirk Cureton – School of Health and Human Performances