

FY 2008 Technology Fee Proposal

Submitting Organization:

Major Unit: Robinson College of Business

Department: CIS

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1. Project Short Title

<i>5-8 Word Project Title</i>

PDA's for Experiential Learning about Individual Productivity and Collaborative Tools

2. Total Requested

Fiscal Year 2008

\$ 61,340.00 (assumes that 2-year service contracts will be signed for service; devices would cost more without 2-year service contracts)

3. Executive Summary

Project Description (three or four sentences)
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PDA's and smart phones allow professionals to be productive and collaborate from anywhere—not just from their office PCs. Professionals favor them over laptops and notebooks because of their small size. Giving students in CIS 1010 (Using Technology for Personal Effectiveness and Collaboration) hands-on experience with PDA's using different operating systems is an integral part of this new course. With 10 Palm Treo 680 (Palm OS), and 10 Samsung Blackjack (SGH-i607) (Windows Mobile operating system), 10 Blackberry Pearl (), and 10 Apple iPhones, students would be able to compare and contrast four operating systems as well the features of four PDA's.

4. Project Description

Provide a brief narrative description (not to exceed 300 words) of the proposed project or funding

Instead of merely discussing technology for personal effectiveness and collaboration or using online simulators, students will be able to have hands-on experience with various mobile devices. As a result, they will complete the course with a better understanding of Bluetooth, SMS, mobile web access, as well as creating, sending, and retrieving various message formats on PDA's. They will also be able to do web design for mobile devices and technology to support people with disabilities and see the how their web pages appear on mobile devices.

PDA's will be stored in Classroom South 120 and recharged there between use by students in class and during scheduled office hours, when students can use the devices in a classroom in Classroom South(most likely CS 100).

If this is a request for continued funding for a previous year's award, indicate the outcomes and results of the prior award(s).

5. Record the review numbers assigned by IS&T and Facilities. Their assessments must be included in Sections 16 and 17.

IS&T: # IST08-104
Facilities: #14695-07

6. Relevance to Regents Guidelines

Identify specific Regents guidelines that justify this proposal's funding by the Technology Fee. Reference should be made to the specific enabling paragraph, if possible (see Attachment 1: Technology Fee Guidelines). An itemized listing of specific guidelines is sufficient.

This proposal is designed to directly benefit students by giving them access to productivity and collaboration tools that are not currently provided to students by GSU. As a result, it satisfies the first Regents guideline that "Technology fee revenues [be] used primarily for the direct benefit of students to assist them in meeting the educational objectives of their academic programs." Since business professionals rely on their PDAs as well as their laptop and desktop computers, students completing CIS 1010 with hands-on experience will be better prepared for employment.

7. Relevance to Strategic Plan(s)

Provide a brief explanation regarding how the proposed project or funding requirement is related to university, college, and/or departmental strategic plans.

The proposed project directly addresses the strategic goals of the CIS Department, the Robinson College of Business, and the University that technology be integrated into the curriculum, and that the currency of courses be as high as possible.

8. Impact on Students Served

Provide a paragraph describing the number and types of students served or special audiences served. If appropriate, identify the number of hours in which the facility will be accessible to students, any restrictions regarding access, any accommodations needed for students with special accessibility needs, any special staff services that will be made available, or any specialized hardware or software that will be made available.

Although the use of PDAs/smart phones is currently only in the CIS curriculum for CIS 1010, the devices could also be incorporated into CIS 2010 (Introduction to Computer-Based Information Systems). CIS 1010 was taught for the first time in Spring 2007 with 20 students. We anticipate that enrollments will increase through word of mouth and promotion of the course for Fall 2007. If the course is approved as an offering for 1410.40 Area D: Science, Mathematics, and Technology of the undergraduate core curriculum. When the course is approved for Area D, we expect to have multiple sections of up to 35 students.

If enough devices are available, the 14 sections (with up to 45 students per section) of CIS 2010 offered each spring and fall, and the 6 sections offered in the summer would schedule hands-on use of mobile technology.

9. Justification of Funding Requirements for Fiscal Year 2008

Provide a specific description of the funding requirements for FY 2008 in the Microsoft Excel spreadsheet below. You must use the same terminology as in the Project Description (page 2, #4) to allow each itemized line to be traced back to the items and functionality appearing in the Project Description. Failure to do so will negatively affect consideration of your proposal. Itemize and total the following categories of expense. If necessary, add lines to the table below corresponding to accounting objects of expense. **Please note that any equipment items less than \$4,999 should be categorized as "supplies."**

Object of Expense	Itemized Descriptions	Quantity	Per unit price	Extended Total	
Supplies (Note: PCs under \$5,000 go here. Also, use standard dollar amounts and replacement thresholds from sections 11/12, or provide explanation in sections 11/12.)	Item 1 - Apple iPhone	10	\$500.00	\$12,500.00	
	Item 2 - RIM Blackberry Pearl	10	\$250.00		
	Item 3 - Samsung Blackjack	10	\$200.00		
	Item 4 - Palm Treo 680	10	\$300.00		
	Item 5				
	Item 6				
	Item 7				
Equipment	Item 1			\$0.00	
	Item 2, etc				
Software (Note: Include Vendor and Product Name.)	Item 1			\$0.00	
	Item 2				
	Item 3, etc				
Maintenance or Contractual Services	Item 1 - One-time Service Activation fee	10	\$36.00	\$48,840.00	
	Item 2 - One-time Service Activation fee	10	\$36.00		
	Item 3 - One-time Service Activation fee	10	\$36.00		
	Item 4 - One-time Service Activation fee	10	\$36.00		
	Item 1 - Voice, message, and data service/mo*12	10	\$1,260.00		
	Item 2 - Voice, message, and data service/mo*12	10	\$960.00		
	Item 3 - Voice, message, and data service/mo*12	10	\$1,260.00		
	Item 4 - Voice, message, and data service/mo*12	10	\$1,260.00		
Board of Regents Guidelines state "In almost no cases should technology fee revenues be used for ... space renovation, or other items or activities that do not have a direct and immediate impact upon students instructional objectives." (See Attachment 1, #8)					
Construction Services (Requires review of Planning & Facilities)	Item 1 (all items listed above): move electrical outlet to other wall; cost to be determined			\$0.00	
	Item 2				
	Item 3, etc				
Network Connections and Infrastructure Costs (Requires review of UCCS)	Item 1			\$0.00	
	Item 2				
	Item 3				
	Item 4, etc				
Physical Security (Note: Costs normally should not exceed 2.5% of Total Requested.)	Item 1			\$0.00	
	Item 2				
	Item 3				
	Item 4, etc				
Other Expenses (explain)	Item 1 (all items listed above): power strips to recharge devices; cost to be determined			\$0.00	
	Item 2, etc				
Board of Regents Guidelines state "Technology fee revenues may be used - with caution - for new staffing that is either temporary or ongoing." (See Attachment 1, #6)					
Staff Salaries	Item 1			\$0.00	
	Item 2, etc				
Fringe Benefits	Item 1			\$0.00	
	Item 2, etc				
			Hourly Rate		
Student Assistant Salaries	Item 1			\$0.00	
	Item 2, etc				
Graduate Student Assistant Salaries	Item 1			\$0.00	
	Item 2, etc				
TOTAL				\$61,340.00	

9. Consequences of Partial Funding

State what the consequences would be on the effectiveness and viability of the proposal if it were only funded in FY 2008 at the following percentages of the requested total:

Only 75% funded: State specifically whether or not the proposed project would remain viable. If the project would remain viable, itemize and total the following categories of expense at 75% funding in the Microsoft Excel spreadsheet below.

The project would remain viable, but fewer devices would be available, with the result that students would have fewer opportunities to have hands-on experience with each device.

Object of Expense	Itemized Descriptions	Quantity	Per unit price	Extended Total	
Supplies (Note: PCs under \$5,000 go here. Also, use standard dollar amounts and replacement thresholds from sections 11/12, or provide explanation in sections 11/12.)	Item 1 - Apple iPhone	7	\$500.00	\$9,150.00	
	Item 2 - RIM Blackberry Pearl	7	\$250.00		
	Item 3 - Samsung Blackjack	9	\$200.00		
	Item 4 - Palm Treo 680	7	\$300.00		
	Item 5				
	Item 6				
	Item 7				
Equipment	Item 1			\$0.00	
	Item 2, etc				
Software (Note: Include Vendor and Product Name.)	Item 1			\$0.00	
	Item 2				
	Item 3, etc				
Maintenance or Contractual Services	Item 1 - One-time Service Activation fee	7	\$36.00	\$36,780.00	
	Item 2 - One-time Service Activation fee	7	\$36.00		
	Item 3 - One-time Service Activation fee	9	\$36.00		
	Item 4 - One-time Service Activation fee	7	\$36.00		
	Item 1 - Voice, message, and data service/mo*12	7	\$1,260.00		
	Item 2 - Voice, message, and data service/mo*12	7	\$960.00		
	Item 3 - Voice, message, and data service/mo*12	9	\$1,260.00		
	Item 4 - Voice, message, and data service/mo*12	7	\$1,260.00		
Board of Regents Guidelines state "In almost no cases should technology fee revenues be used for ... space renovation, or other items or activities that do not have a direct and immediate impact upon students instructional objectives." (See Attachment 1, #8)					
Construction Services (Requires review of Planning & Facilities)	Item 1 (all items listed above): move electrical outlet to other wall; cost to be determined			\$0.00	
	Item 2				
	Item 3, etc				
Network Connections and Infrastructure Costs (Requires review of UCCS)	Item 1			\$0.00	
	Item 2				
	Item 3				
	Item 4, etc				
Physical Security (Note: Costs normally should not exceed 2.5% of Total Requested.)	Item 1			\$0.00	
	Item 2				
	Item 3				
	Item 4, etc				
Other Expenses (explain)	Item 1 (all items listed above): power strips to recharge devices; cost to be determined			\$0.00	
	Item 2, etc				
Board of Regents Guidelines state "Technology fee revenues may be used - with caution - for new staffing that is either temporary or ongoing." (See Attachment 1, #6)					
Staff Salaries	Item 1			\$0.00	
	Item 2, etc				
Fringe Benefits	Item 1			\$0.00	
	Item 2, etc				
		Hours/wk	Hourly Rate		
Student Assistant Salaries	Item 1			\$0.00	
	Item 2, etc				
Graduate Student Assistant Salaries	Item 1			\$0.00	
	Item 2, etc				
TOTAL				\$45,930.00	

Only 50% funded: State specifically whether or not the proposed project would remain viable. If the project would remain viable, itemize and total the following categories of expense at 50% funding in the Microsoft Excel spreadsheet below.

The project would remain viable, but fewer devices would be available, with the result that students would have fewer opportunities to have hands-on experience with each device.

Object of Expense	Itemized Descriptions	Quantity	Per unit price	Extended Total
Supplies (Note: PCs under \$5,000 go here. Also, use standard dollar amounts and replacement thresholds from sections 11/12, or provide explanation in sections 11/12.)	Item 1 - Apple iPhone	5	\$500.00	\$6,250.00
	Item 2 - RIM Blackberry Pearl	5	\$250.00	
	Item 3 - Samsung Blackjack	5	\$200.00	
	Item 4 - Palm Treo 680	5	\$300.00	
	Item 5			
	Item 6			
	Item 7			
Equipment	Item 1			\$0.00
	Item 2, etc			
Software (Note: Include Vendor and Product Name.)	Item 1			\$0.00
	Item 2			
	Item 3, etc			
Maintenance or Contractual Services	Item 1 - One-time Service Activation fee	5	\$36.00	\$24,420.00
	Item 2 - One-time Service Activation fee	5	\$36.00	
	Item 3 - One-time Service Activation fee	5	\$36.00	
	Item 4 - One-time Service Activation fee	5	\$36.00	
	Item 1 - Voice, message, and data service/mo*12	5	\$1,260.00	
	Item 2 - Voice, message, and data service/mo*12	5	\$960.00	
	Item 3 - Voice, message, and data service/mo*12	5	\$1,260.00	
	Item 4 - Voice, message, and data service/mo*12	5	\$1,260.00	
Board of Regents Guidelines state "In almost no cases should technology fee revenues be used for ... space renovation, or other items or activities that do not have a direct and immediate impact upon students instructional objectives." (See Attachment 1, #8)				
Construction Services (Requires review of Planning & Facilities)	Item 1 (all items listed above): move electrical outlet to other wall; cost to be determined			\$0.00
	Item 2			
	Item 3, etc			
Network Connections and Infrastructure Costs (Requires review of UCCS)	Item 1			\$0.00
	Item 2			
	Item 3			
	Item 4, etc			
Physical Security (Note: Costs normally should not exceed 2.5% of Total Requested.)	Item 1			\$0.00
	Item 2			
	Item 3			
	Item 4, etc			
Other Expenses (explain)	Item 1 (all items listed above): power strips to recharge devices; cost to be determined			\$0.00
	Item 2, etc			
Board of Regents Guidelines state "Technology fee revenues may be used - with caution - for new staffing that is either temporary or ongoing." (See Attachment 1, #6)				
Staff Salaries	Item 1			\$0.00
	Item 2, etc			
Fringe Benefits	Item 1			\$0.00
	Item 2, etc			
		Hours/wk	Hourly Rate	
Student Assistant Salaries	Item 1			\$0.00
	Item 2, etc			
Graduate Student Assistant Salaries	Item 1			\$0.00
	Item 2, etc			
TOTAL				\$30,670.00

10. Standard Dollar Amounts

In constructing the budgetary requests in Sections 9 and 10 above, computer workstations should be budgeted at the following levels:

The following desktop systems are the standard technology for Student Technology Fee purposes. Desktop systems exceeding this capability and price must be specifically justified:

- | | |
|---|---------|
| 1. Windows/Intel processors workstation, including monitor: | \$1,222 |
| 2. Apple Macintosh models: | \$1,376 |

The following types of equipment require justification over and above desktop systems. The following prices and configurations are standard for these types of equipment. Any deviation from these standards must be further justified:

- | | |
|--------------------------------------|---------|
| 1. Windows/Intel processors laptop: | \$1,749 |
| 2. Apple Macintosh laptop: | \$1,382 |
| 3. Personal Digital Assistant (PDA): | \$ 472 |
| 4. Tablet computer: | \$1,984 |

Provide any justification narrative of programmatic requirements here.

Most of the PDAs/smart phones being requested cost less than \$472 per device. Only the iPhone costs slightly more. Its inclusion is appropriate because it represents a fourth operating system. The average cost per device will still be \$313.50.

11. Standard Replacement Thresholds

All equipment being requested due to obsolescence or inadequacy of existing equipment must be itemized on the form provided in Attachment 3: Itemization of Equipment to be Replaced. Each item for which replacement funding is being requested will be in one of the following two categories:

- a) *If the equipment to be replaced is less than Pentium® 4 processor speed, this equipment is considered obsolete due to a university-wide standard. This standard of minimum performance has been set based on requirements for operating the current operating systems and office suites. The proposal submitter must state that the university minimum performance criteria are being used.*
- b) *If the equipment to be replaced exceeds the university minimum of Pentium® 4, the proposal submitter is required to document specific quantitative performance requirements that warrant the replacement of such equipment. The equipment's inability to perform specific functions must be identified. Also, a statement is required explaining why the performance of such functions is critical to the continued functioning of the facility in which the equipment is located. See Attachment 4: Equipment Exception Replacement Form, which must be completed for all replacement equipment that exceeds the university standard threshold of Pentium® 4.*

12. Prerequisite, Non-Technology Fee Funding

Identify any non-technology fee prerequisite funding this proposal is dependent upon. Document that these prerequisite funds are available, should this proposal be funded.

N/A

13. Matching Funds

Describe any additional funds that have been committed and will be provided to this project from other sources. These funds should be those that would more effectively leverage the technology fee funding, if approved. Specify whether or not these matching funds are available for a limited time.

N/A

14. Staffing and Other Support Availability

If appropriate, describe the specific staff and other continuing fiscal resources required to maintain the proposed project. Justify the use of and the hours worked by graduate student assistants and student assistants. Also, justify any consulting/contracting work.

For staff requirements, identify the current unit and supervisor of staff required to support the related technology. Refer Regents Guideline #6 for guidance on the appropriate use of technology fee funding for new staff requests. However, the FY 2007 STF Committee feels, as did the FY 2006 STF Committee, it is very unwise to rely on technology fees and an annual review by STF subcommittees to maintain staff positions. Accordingly, expect requests for staff funding to be approved with caution and reluctance and with the understanding that these proposals are unlikely to be supported in subsequent years.

The instructor for CIS 1010 (and possibly the coordinator for CIS 2010), together with a teaching assistant assigned to CIS 1010 and CIS 2010 together would set policy for checking out devices for use during scheduled classes and lab office hours. If the devices are used in CIS 2010, each instructor whose section uses the devices will be responsible for checking out and checking in the devices.

15. Space Availability and Impact on Facilities

This requested facility modification will provide an electrical outlet(s) which will provide the capability to re-charge PDA's from a re-charging cart or directly from an electrical outlet(s). A dedicated electrical circuit will be run from the existing panel box in this room to a new duplex outlet to be installed in this room.

Estimated Project Budget:

Estimated Design, Specifications, and Construction Costs: \$385.00

16. Impact on Computing/Networking/Information Security Infrastructure

Information Security Review (Tammy Clark):

Impact: No

Assessment:

Wireless and Network Ports Review (Mark Roberson):

Impact: No

Assessment:

Server Connections (Charles Hollingsworth, Tammy Clark, Keith Campbell):

Impact: (No-CWH) , No impact – KEC

Assessment:

External Connections (Charles Hollingsworth):

Impact: (No-CWH)

Assessment:

DVR Installations (Mark Roberson, Tammy Clark, Charles Hollingsworth):

Impact: (No-CWH)

Assessment:

Lab and Classroom Configurations (Joe Amador):

Impact: Yes/No YES

Assessment: IS&T PS&I WTS will need to assess the capability of classroom technology in CS100 to sync with these devices.

17. Physical Security Needs

If you are requesting any physical security funding, provide the rationale for these needs here.

CS 120 is a secure room. There are no windows.

18. Post-Project Assessment Criteria

Identify one or more milestones and/or expected project outcomes that indicate project progress and completion. These items should be chosen to facilitate independent evaluation of project success, and should be referenced in the Status Report due on January 31, 2008, and in the Project Final Report due on October 1, 2008. (See Attachment 5 for a copy of the form to be used for both reports).

Expected project outcomes include the ability of students to compare and contrast the strengths and weaknesses of the four mobile operating systems, as well as the ease of use of the devices, based on personal experience. Because of students' hands-on experience with the devices, students will be able to discuss the strengths and weaknesses of each operating system and device on a test and the final exam. In addition, students will be able to create mobile web pages and evaluate their ease of use from each device. Each student will be required to keep a journal of his/her interactions with each device.

19. Review and Acknowledgements

Attach electronic notes or documentation showing that the following units or administrators have reviewed or acknowledged this proposal:

- Matching funds commitment from appropriate fiscal officer

N/A