

STUDENT TECH FEE PROJECT

2007 PROJECT SUMMARY SHEET

Project Title: MEDIATE CBE PARKS HALL 210 COMPUTER LAB Project #
(Staff only)

Department / Organization COLLEGE OF BUSINESS AND ECONOMICS

Applicant Name/s: DEAN DENNIS MURPHY Mail Stop: 9072 Phone: 650-3896

DR. STEVE ROSS Mail Stop: 9077 Phone: 650-4890

MR. DAVID AUER Mail Stop: 9072 Phone: 650-2904

Amount Requested for Project: \$ 21,396.67

Contribution by Requesting Organization (if any): \$ See Proposal

Date of Submission: January 31st, 2007

APPROPRIATE APPROVAL SIGNATURES:

Department Chair

College Dean

Space Administration

Vice Provost for Information and Telecomm. Services

AS President

Provost

Source of Contributed Resources (if any): _____

Authorization for Contributed Resources: _____

PRIORITY: 2 _____
By College Provost AS President STF Committee

2007 Student Technology Fee Proposal Form

Title of Project: Mediate CBE Parks Hall 210 Computer Lab

Department/Organization: CBE

Project Applicant/s:

Principal Contact person: Mr. David Auer Mail Stop 9072 Phone x2904

Co-Applicant: Dean Dennis Murphy Mail Stop 9072 Phone x3896

Co-Applicant: Dr. Steve Ross Mail Stop ..9077 Phone x4890

Co-Applicant: Mail Stop Phone

Co-Applicant: Mail Stop Phone

Amount Requested for project: \$ 21,396.67

Contribution by Requesting Organization: Instructor podium / equipment spacel

Important note: Before completing this form, please read the instructions contained at <http://www.wvu.edu/stf/>

Section One: Project Abstract

This section of the proposal should provide a one-paragraph summary of the existing environment and problems, a summary of the items being requested, and a brief explanation of how these items will contribute to the solution of the problem and/or improve the existing environment.

The computers and monitors in the CBE PH 210 computer lab have been updated via two recent STF grants. A grant from the AY 2003-2004 STF program allowed CBE to replace the monitors and printers in PH 210, and a grant from the AY 2004-2005 STF program allowed CBE to replace the workstations themselves. In addition, CBE purchased eight (8) additional workstations and monitors in AY 2004-2005 to expand the capacity of PH 210 to sixty-one (61) workstations available for users. This gives the PH 210 Computer Lab the largest capacity at WWU.

However, only half of PH 210 is effectively mediated. PH 210 can be split into two separate labs – PH 210 South and PH 210 North. PH 210 South was mediated via a grant for the AY 2002-2003 STF program. PH 210 North remains unmediated, and students in large classes using the entire lab must make do with displays on the existing screen and speakers in PH 210 South. The screen is too small for good visibility by students in PH 210 North.

In addition, it is difficult for Professors to be heard when PH 210 is used as a single room. The addition of a wireless microphone system to the existing mediation in PH 210 South would easily solve this problem.

This project will mediate the Parks Hall 210 North Computer Lab with Level IV mediation, and add a wireless microphone system to the Parks Hall 210 South Computer Lab. Level IV mediation is the standard for ATUS computer labs, and is used in PH 210 South. The PH210 North mediation will allow the ceiling mounted projector in PH 210 North to be used both as a standalone projector for PH 210 North, and as a slave projector to the projector in PH 210 South. This will allow instructors of large

classes to work from the PH 210 South podium and still have their presentation easily seen and heard by all students.

Section Two – Relationship to STF Objectives and Impact upon existing Academic Programs:

This section describes the project in detail, and shows how the project relates to the STF objectives. Special attention should be given to how the proposed project will provide positive benefits to specific courses or instructional programs.

Please complete all of the following sections:

1. From a **student's perspective**:

a. **How does this project provide additional student access to technological resources and equipment they need to maintain and enhance their technological competency as it relates to their academic endeavors?**

Classroom mediation creates an excellent teaching environment, as illustrated by the ATUS Haggard Hall computer labs, and WWU students have become accustomed to presentations based on mediated classroom capabilities. CBE professors have improved their teaching effectiveness by adopting the tools that a mediated classroom puts at their disposal. Up-to-date technology contributes to the efficient use of the student's time by allowing students to accomplish the same work more quickly. The proposed mediation translates into a higher quality and more consistent student experience.

b. **Describe how this project will broaden or enhance the quality of the student's academic experience through the use of technology:**

Up-to-date hardware contributes to the effective use of technological resources by allowing educators to present material more efficiently. Mediated classrooms provide a high quality presentation environment and the students directly benefit from this environment. This may translate into less time per student on the workstations, which allows greater numbers of students to use the equipment.

c. **How does this project increase the integration of technology into their coursework?**

Up-to-date, efficient mediation allows the integration of work with the Internet, multimedia CD-ROM or DVD supplements, and data files from software such as Microsoft PowerPoint. CBE instructors are regularly using PowerPoint for classroom presentations, but are limited in their ability to project the presentations in the PH 210 North Computer Lab and be heard when working from the PH 210 South podium during lab sessions. In general, computer techniques are easily demonstrated and displayed via the classroom mediation in any Parks Hall classroom, but the same instruction is hindered in the PH 210 Computer Lab where the students can actually use a computer.

2. **Explain how this project will further the educational goals of students taking courses offered by your department:**

CBE classes use course specific software that is often supported only in PH 210. This software is installed, maintained and used in direct support of the

educational goals of students taking CBE courses. The performance of PH 210 thus directly effects the educational experience of students taking CBE courses.

3. Will any other departments be involved with this project? If “Yes,” please describe their involvement.

No

4. Has any part of this project previously been funded by STF?

No Yes (Please describe):

(1) The 2003 STF awards provided CBE with \$20,467 to mediate the PH 210 South Computer Lab. Basic fibre-optic security infrastructure was installed as part of the mediation project.

(2) The 2004 STF awards provided CBE with \$29,668.04 to purchase fifty-seven (57) 17” LCD monitors and two (2) Hewlett-Packard HP 8150 Laser Jet printers. CBE contributed \$1,420.86 for USB extension cables and security cableing.

(3) The 2005 STF awards provided CBE with \$55,521.00 to purchase fifty-seven (57) Pentium 4 Computer Workstations and three (3) external ZIP 750 drives. CBE contributed \$14,616.97 for eight (8) additional computers, monitors and USB extension cables.

Section Three – Utilization

This section of the proposal is intended to provide the STFC with information concerning the nature and extent of the use of the proposed items. Applicants are encouraged to provide additional information that will further describe the intended use of the items requested by the proposal.

1. Is this a new project, or a continuation of a program?

New (Please describe)

Continuation (Please describe) See Section One – “Project Abstract” and Section Two (4) – “Has any part of this project previously been funded by STF?”

2. Please list the number of times each quarter that the proposed item(s) will be used by students and the duration of its use. For instance, if the project is requesting camcorders, a response might be, “This equipment will be used by the 35 students enrolled in Acct. 101. Each student is assigned one project/quarter and it’s anticipated that each student will have to use the equipment for two days to complete the project.”

This equipment will be used whenever:

- The full PH 210 Computer Lab is in use by a single class, with the PH 210 North projector and speakers slaved to the PH 210 South projector in use by the instructor, or
- The PH 210 North Computer Lab is in use in a divided lab, with the PH 210 North podium used by the instructor

Thus, the best estimate of use is the classes that may use one of these two scenarios together with the number of hours the class will use the lab during the

quarter (class enrollments are shown for reference). Note that these numbers are typical but not comprehensive, and that they are a composite of classes that use the lab in different quarters of the school year. The lab is used every quarter by MIS 220, MIS 320, and DSCI 305, with the other classes using the lab one or more quarters each year.

Course Using Equipment	Total Quarterly Enrollment (all sections)	Total Number of Lab Hours
ACCT 431	30	16
ACCT 441	25	11
DSCI 305	120	4
ECON 446	18	2
MIS 220	150	46
MIS 320	140	80
MIS 324	10	20
MIS 423	15	10
MIS 495	10	2
OPS 360	120	7
OPS 461	30	8
OPS 463	55	2
OPS 469	8	16
MKTG 489	32	2
MBA 510B	12	1
MBA 511	12	2

3. Please list the calculation that is used to determine the number of items that you have requested. For example: *“Since there are 35 students in Acct 101, and each requires 2 days of use this means the equipment will be used for 70 days each quarter. Additionally, all assignments are completed in the last month of the quarter (20 instructional days). Therefore, in order to accommodate all 35 students a total of 4 camcorders are needed. (70 student-hours/20 instructional days, rounded up).”*

In other cases, the quantity may be determined by class size, vendor pricing policies, etc. In all cases, the STFC is interested in quantitative measures of use. For example: *“if the proposal is for a specialized program that will be used by all students in 5 courses, the explanation might be as follows...”This software will be used periodically by all students enrolled in Soc 100, 212, 419, for a total of 300 students per year. Each student will use the software 2-3 times per week for the preparation of homework assignments. It is estimated that each use of the software will be about 30 minutes. We are requesting 150 copies of the software since not all students will be using the software simultaneously.”*

We are requesting one complete set of equipment to mediate the north end of the lab to Level IV standards. The lab is divisible into two sections and one of those is already mediated.

Section Four – Project Budget

This section of the proposal details the total estimated cost of the project, including those costs that will be borne by the proposing organizational entity. The STFC will give additional weight to

proposals where additional funding is provided by either the organizational entity or other sources. The funds requested from the STF project must be clearly indicated and must match the total shown on the project summary sheet. Personnel, operating expense, and equipment costs must be clearly indicated. The applicant should make every effort to determine accurate costs for the proposal. Applicants are encouraged to consult with relevant campus support organizations (ATUS, Purchasing, Space Administration, etc.) before creating equipment lists and preparing the project budget. If the space below is not large enough to describe the project expenditures, or you wish to make additional comments, please attach an Excel spreadsheet that shows the detail required.

Please note: ATUS has developed “standard configurations” for the purchase of desktop PC’s, laptops, and Apple computers. If these standard configurations meet the needs of your project, please use the “standard cost” in the development of the project budget. The standard configurations can be found on the Student Technology Fee website: <http://www.wvu.edu/stf/> .

Please complete all of the following sections.

Item	Quantity	Item Cost	Total
Please see attached Excel Spreadsheet			\$21,396.67
Total			\$21,396.67

Please Note: Applicants are reminded that the foregoing budget is **FOR REFERENCE ONLY** and the funding for a project will be re-calculated prior to the final award. The STFC will often partially fund a project due to technical, financial, or programmatic factors. A project’s original budget might also be modified to include missing items, price or configuration changes, taxes, shipping, etc. The final funding for the project will not be established after the project has been technically reviewed and any special award conditions considered. *Please see Sections B.7 & B.9 of the STF Mission Statement for a further explanation of these procedures.*
<http://www.wvu.edu/cms/WWU.STF/mission.html>

1. What funding is available from your department or other sources such as grants?

None. However, the needed instructor podium computer and monitor are already owned by CBE (purchased by CBE as an additional workstation to expand PH 210 in AY 2004-2005), and CBE has already installed a movable podium to match the one currently in use in PH 210 South.

2. Can this project be divided into discrete elements that could be funded separately?

No Yes (Please summarize project segments with cost estimate for each segment. Also give the relative priority of each project segment):

3. Are lab fees charged for any of the courses that will use this equipment?

No Yes (If yes, please note that the total funding requested from the STF must reflect the amount collected from course fees for equipment replacement and/or equipment acquisition. All proposals that involve course fees will be reviewed by the Academic Budget Office.

Section Five: Impact on Existing Resources

The proposal should describe how the project will impact existing resources. Special attention should be given to impact on data transmission networks (e.g. sources accessed, networking equipment, etc.), and personnel (e.g. staffing, administrative support, faculty support, etc.).

Any proposal that includes the replacement of computers shall specifically address the feasibility and cost effectiveness of upgrading the computers rather than replacing the computers.

1. Describe how existing equipment is used and contrast this to the usage if project is funded:

Currently, for a large class using the entire PH 210 Computer Lab, students in PH 210 North rely on being able to see materials projected in PH 210 South on a small screen, or, for a small class using PH 210 North only, the classroom is not mediated. Further, they must rely on the unamplified voice of their instructor.

If the project is funded, large classes will see materials projected on two screens (one for each half of the lab), and small classes in PH 210 North will be in a mediated classroom. Further, large classes will be able to clearly hear the Professor's presentation.

2. Is equipment similar to the equipment being proposed already available elsewhere on campus (Student Technology Center, ATUS, Library, college lab, etc.)? If so, please describe why this equipment cannot be utilized for this project.

Yes, but the equipment by its nature is classroom specific.

3. If this project involves the replacement of equipment:

a. Describe the 'before and after' configuration changes, or attach a spreadsheet that shows the changes.

Not Applicable

b. Describe the costs and benefits of replacing vs. upgrading (if applicable):

Not Applicable

4. Will this equipment be available to students outside your department?

No Yes (Please describe):

PH 210 is open for use by all WWU students. Many of the CBE classes that are heavy users of the PH 210 Computer Lab are taken by students in other colleges.

5. Does this proposal involve the check-out of equipment to students?

No Yes (If yes, please discuss whether or not the Student Technology Center can be used for this purpose.)

6. If the equipment will be used by students outside your department, please describe how students will gain access to the equipment, how the availability of the equipment will be publicized, the hours/week during which the equipment will be available, and any costs that will apply.

7. PH 210 is open for use by all WWU students. Hours of operation (and hours reserved for class use) are posted outside PH 210 Computer Lab and on the CBE web site at <http://www.cbe.wwu.edu/ISTS/LabSchedule/LabSchedule.asp>. The CS&D department informs their students of the availability of PH 210 for CS&D use. There are currently no costs or lab fees. If this changes, this information will be posted with the schedule.

8. Does the department have adequate operating funds to provide on-going maintenance and support?

No Yes (Please describe):

9. Does the department have adequate personnel funds to provide on-going support for this project?

No Yes (Please describe):

Section Six – Space and Site Information

This section should specifically address any space or site preparation activities that are necessary to complete the project. Any site alterations, painting, security systems, carpeting, construction, or lighting changes that are necessary must be specifically identified. Additionally, the project must specifically address any change in usage of a space (e.g. conversion of a lab, faculty office, etc.).

Special Note: If this project requires any site preparation (electrical, data, lighting, etc.), or if this project uses any spaces not currently under control of the department, a draft project description must be submitted to Space Administration by Friday, Jan 14, 2005. Space Administration and Facilities Management will need to conduct a site survey and provide the applicant with information concerning project feasibility, cost, and schedule. This information must be included in the final project submission.

Proposals for projects that involve any site preparation will be considered only after the required site survey by Space Administration and Facilities Management has been completed.

Please complete the following:

1. Location of equipment installation:

PH 210 Computer Lab

2. Site modification required:

No Yes **(Please describe briefly, i.e. electrical, air handling, painting, lighting, security, network access, etc.):**
Electrical, carpentry, painting, security, etc.

3. Will this project use space not currently assigned to your department?

No Yes **(Please describe):**

Section Seven – Project Schedule

This section describes the overall implementation schedule of the project. Applicants should assume that project awards will be made by end of spring quarter. Whenever possible, projects should be substantially completed by January 1 of the year following award of the project. If a proposed project cannot be substantially completed by this time, the applicant should provide a detailed explanation of the project schedule and the reasons for the extended time period.

Please make sure the project schedule agrees with the schedule provided by Space Administration and Facilities Management (if there is any site preparation involved).

August-September 2007 Installation in PH 210 during summer break.
Completed by 1st day of classes Fall quarter 2007

Section Eight – Constraints

This section should list any external or internal factors that could affect the project schedule, project objectives, or the project budget (e.g. if external approval is required for curricular changes, or if funding must be received by a certain date).

1. Please describe any constraints to this project.

Funds must be available by August 1st, 2007 for all payments. Main work must be completed after end of nine-week Summer Session 2007 and before the start of Fall Quarter 2007. If the approved proposal includes security upgrades, this project will require coordination and scheduling with Facilities Management and ATUS.

Section Nine – External Funding

This section must be completed for any projects over \$100,000. For projects this large, the applicant should investigate opportunities for obtaining external funding for all or for part of the proposed project.

1. Describe the external organization(s) that may be able to provide funding in support of this project.

Not Applicable

2. Describe the funding cycle for these requests. (Please show both submittal dates as well as projected award dates)

Not Applicable

3. Indicate the amount of funding that will be requested. Please explain why the funding agency cannot provide the entire amount.

Not Applicable

4. In cases where join funding is requested, what will happen if the STF award is made and the external grant is not awarded?

Not Applicable

5. Has a grant proposal already been submitted for all or part of the proposed STF project?

Not Applicable

COLLEGE OF BUSINESS AND ECONOMICS
2007 Student Technology Fee Proposal
Mediate Parks Hall 210 Computer Lab

PH 210 North Lab Estimated Media Costs				REV:	24-Jan-07	
Item	Model	Manufacturer	Description	Quantity	Est Price	Ext
PH 210 NORTH ONLY:						
1	PowerLite 830P	Epson	Video Projector [Estimated**]	1	\$ 2,000.00	\$ 2,000.00
2	RPA-430	Chief	Projector Mount for CP-X430	1	\$ 159.00	\$ 159.00
3	HR-XVC37I	JVC	VCR S-VHS/DVD player	1	\$ 209.95	\$ 209.95
4	PS-550	Lumens	Document Camera, Progressive Scan	1	\$ 1,369.00	\$ 1,369.00
5	MLS506SA	Extron	A/V Switcher, Gray	1	\$ 1,707.70	\$ 1,707.70
6	MLC206	Extron	Media Link Controller, Gray	1	\$ 737.73	\$ 737.73
7	70-107-63	Extron	Single One S-video and Two RCA (gray), Silkscreened	1	\$ 55.00	\$ 55.00
8	CVD-3800	Covid	5 Cond. Coax Flex-Plenum.	150	\$ 3.05	\$ 458.10
9	225395-7	AMP	BNC male mini crimp connector	24	\$ 2.62	\$ 62.88
10	55-621-1	Cal-Rad	HD Male VGA to 5 female BNC cable 1ft	1	\$ 24.64	\$ 24.64
11	DA-1912SX	Altinex	1x2 RGBHV Distribution Amplifier	1	\$ 279.00	\$ 279.00
12	55-611-10	Cal-Rad	5-BNC male to 5-BNC male cable, 10ft	2	\$ 25.00	\$ 50.00
13	DA1222AT	Altinex	RGBHV distribution amplifier	1	\$ 390.00	\$ 390.00
14	70-109-63	Extron	Single One RCA-video and Two RCA (gray), Silkscreened	1	\$ 55.00	\$ 55.00
15	ST-DA3	RDL	Audio Distribution Amplifier	2	\$ 138.00	\$ 276.00
16	PS-24A	RDL	Power supply for ADA	1	\$ 21.00	\$ 21.00
17	Control-5-White	JBL	175w Speaker	2	\$ 222.22	\$ 444.44
18	MTC51-White	JBL	Wall mount Speaker Bracket	2	\$ 63.36	\$ 126.72
19	DA-1910SX-VGAPack	Altinex	Computer interface with VGA pack cables	1	\$ 237.00	\$ 237.00
20	U1	MidAtlantic	Rack mount Shelf for Link modules	1	\$ 29.08	\$ 29.08
21	U2	MidAtlantic	Rackmount Shelf for DVD/VCR	1	\$ 35.38	\$ 35.38
22	HTX	MidAtlantic	Star Post Security Screw	1	\$ 11.25	\$ 11.25
23	S1	MidAtlantic	1RU security cover	1	\$ 34.43	\$ 34.43
24	LBP-1R	MidAtlantic	Middle Atlantic Products, Horizontal Lacer Bar, PKG of 10	1	\$ 36.00	\$ 36.00
25	CCV-MM1515C	QVS	VGA Interface Input cable 6ft	1	\$ 32.23	\$ 32.23
26	L3-18	Little-Lite	Gooseneck work light	1	\$ 53.00	\$ 53.00
27	6-Outlet	Triplite	6 outlet Protected Power strip	1	\$ 53.47	\$ 53.47
PH 210 SOUTH ONLY:						
28	ULXP14/85	Shure	UHF Lavalier Wireless Microphone	1	\$ 740.00	\$ 740.00
Equipment Subtotal						\$ 9,688.00
Equipment Sales Tax 8.90%						\$ 862.23
Equipment Total						\$ 10,550.23

Additional material and Cost

Instructor's custom equipment rack/lectern	[Provided by CBE - no STF cost]	1	\$ -	\$ -
Instructor's computer and monitor	[Already in PH 210 N - no additional STF cost]	1	\$ -	\$ -
ESTIMATED* Physical Plant installation of projector, power, speakers, and signal pathways		1	\$ 6,360.00	\$ 6,360.00
ESTIMATED* Monitored security system and connection to University Police		1	\$ 2,400.00	\$ 2,400.00
ESTIMATED** Misc interconnecting audio and video cable, and connectors		1	\$ 1,200.00	\$ 1,200.00
Additional Cost Subtotal				\$ 9,960.00
Additional Cost Sales Tax 8.90%				\$ 886.44
Additional Cost Total				\$ 10,846.44
Project Grand Total				\$ 21,396.67

*NOTE: Due to time and workload constraints, Facilities was unable to provide detailed current estimates. After consulting with Jim Korski, it was determined that these costs should be estimated based on prior work and estimates done during the STF 2003, STF 2005 and SFT 2006 proposal process. These numbers should be reasonable approximations of the maximum cost.

**NOTE: Estimate by Terry Dayton based on his experience with similar projects.