

FY 2008 Technology Fee Proposal

Submitting Organization:

Major Unit: College of Arts and Sciences
Department: Music

Contact Person: Dr. Mark McFarland

E-Mail: mmcfarland@gsu.edu
Telephone: 1-1545

1. Project Short Title

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

Media Center Upgrade to Dual-Boot Computers (Windows/OS X)
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2. Total Requested

Fiscal Year 2008

\$301,056

3. Executive Summary

Project Description (three or four sentences)
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The School of Music's Media Center is unique in that it is the only campus computer laboratory that houses all the hardware and software required for our discipline. This lab currently contains 36 Dell computers that run software in Windows exclusively. This grant would allow us to upgrade the Media Center by replacing these 36 computers with dual-boot machines and purchasing the required upgrades to software and hardware. Such a change will benefit the growing population in the School of Music and allow our students to train on industry-standard software, regardless of OS compatibility.
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4. Project Description

The Media Center is used by 450+ students, both undergraduate and graduate, as well as numerous non-majors as a resource center and classroom. This learning center is unique at GSU: it is the only one on campus to house all the hardware and software requirements necessary for our discipline. There are currently 36 Dell computers in the Media Center that run software that was chosen for its compatibility with Windows OS rather than for its reputation as an industry standard. Half of these machines are used in conjunction with audio equipment in a recording technology classroom. We need to replace these machines with Macintosh computers that can boot into either OS X or Windows (XP or Vista). Additional hardware and software is required for this upgrade, and some equipment, most notably 14 MacBooks, will be available for overflow student use. This is a vital upgrade since many specialized software titles in our discipline runs only in OS X. Until now, the School of Music had to make a choice between OS platforms. With the advent of these new dual-booting machines, we no longer face this limitation and our students will be able to learn from industry-standard software. While Apple represents a niche market in the overall computer world, music is a large part of this niche and our students will be better prepared for professional work as a result of this upgrade.

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

IS&T: IST08-105

Facilities: A&S 14674-07

6. Relevance to Regents Guidelines

The School of Music's proposal will serve its entire population of 450+ students, both undergraduate and graduate, by providing discipline-specific hardware and software in a unique laboratory and classroom, our Media Center. Our proposal is therefore supported most strongly by points 1 & 3 of the Technology Fee Guidelines:

- #1. Technology fee revenues should be used primarily for the direct benefit of students to assist them in meeting the educational objectives of their academic programs.
- #3. Technology fee revenues should be used for hardware and Network related expenditures that include support of general purpose or special purpose laboratories used by students for body productivity and more discipline related activities

7. Relevance to Strategic Plan(s)

The School of Music is comparable in size to other large schools of music across the country. We are limited, however, by the obsolescence of our computer equipment and by the size and infrastructure of our Media Center. The upgrade of the Media Center is designed for the needs of our current and future students by making our computer laboratory comparable in quality to that of comparable music departments at competing universities. The request for laptops illustrates our strategy to make more efficient use of our Media Center: while there is currently no more room for additional computer carrels, there is room for students to work throughout the Media Center on laptops when overflow use is required.

8. Impact on Students Served

Students will have access to the Media Center lab equipment throughout its open hours, when at least a single lab attendant is present to assist students. The Media Center classroom is used only for lectures when a faculty member is present. The Media Center is vital to the 450+ music majors, both undergraduate and graduate, since this is the only computer lab at GSU to house the specialized software and hardware necessary for our discipline. A complete list of this equipment is found in question 9 below. A brief description of this equipment includes music notation, sequencing, editing, mixing and recording software in addition to the hardware required to run these programs and connect the equipment (MIDI interfaces, MIDI instruments and compatible recording equipment). It would take a student of considerable means to personally own the computer hardware and software proposed for our Media Center. It is for this reason that the upgrade to the Media Center is vitally important.

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.)	Apple iMac 24" Desktop Computer	3	\$2,176.00	\$75,126.00		
	Apple iMac 17" (2.0 GHz) Desktop Computer	34	\$1,430.00			
	Apple MacBook (White 13") Laptop Computer	14	\$1,427.00			
Equipment	Tascam DM-4800 Digital Mixer	1	\$5,000.00	\$105,538.00		
	Supplies (Tascam MU1000 Meter Bridge)	1	\$750.00			
	Supplies (Tascam IFFWDM FireWire Interface)	1	\$400.00			
	Supplies (Tascam X-48 Multi-Track Recorder)	1	\$4,500.00			
	Supplies (Tascam IFAN 24x24 channel I/O)	1	\$370.00			
	Supplies (Tascam CD-RW 2000)	1	\$950.00			
	Supplies (M-Audio USB MIDI Interface)	2	\$50.00			
	Supplies (Glyph GT Keys-250 GB)	6	\$270.00			
	Supplies (Neumann KM 130 Condenser Mic)	2	\$1,200.00			
	Supplies (Neumann SBK 130 Diffusion Sphere)	2	\$80.00			
	Supplies (Shure SM 57 Dynamic Mic)	4	\$55.00			
	Supplies (Shure 58A Dynamic Mic)	2	\$350.00			
	Supplies (AKG C414 B-XLS Condenser Mic)	2	\$950.00			
	Supplies (Millennia HV-3D 8-Channel Preamp)	1	\$4,100.00			
	Supplies (Millennia NSEQ-2 Stereo Equalizer)	1	\$3,850.00			
	Supplies (Sony HVR-A1E Digital Video Camera)	8	\$3,100.00			
	Supplies (Panasonic AG-DV 1000 Mini DV VCR)	1	\$1,280.00			
	Supplies (Apple Cinema Display 23")	1	\$899.00			
	Supplies (WolfVision Portable Visualizer VZ-8 Plus)	8	\$3,650.00			
	Supplies (Sharp XR-20X Multimedia Projector)	4	\$1,079.00			
	Supplies (Panasonic PV-V4624S VCR)	4	\$70.00			
	Supplies (Philips 1080i HDMI DVD Player)	4	\$92.00			
	Supplies (Avenger A700 Junior Boom Stand)	5	\$275.00			
	Supplies (Apogee Rosetta 800 D/A Converter)	2	\$3,000.00			
	Audio/Video/Data Cabling	1	\$10,000.00			
	Software (Note: Include Vendor and Product Name.)	Apple Symphony Orchestra Jam Pack	50		\$79.00	\$118,432.00
		Apple World Music Jam Pack	50		\$79.00	
Apple Rhythm Section Jam Pack		50	\$79.00			
Apple Remix Tools Jam Pack		50	\$79.00			
Garritan Personal Orchestra-Finale Edition		50	\$189.00			
Garritan Jazz & Big Band Sounds		50	\$239.00			
Garritan Kontakt 2		50	\$290.00			
Parallels Desktop		50	\$80.00			
Sibelius Sibelius 4.1.5		50	\$130.00			
Sibelius Kontakt Gold		50	\$149.00			
Garritan Personal Orchestra-Sibelius Edition		50	\$219.00			
Apple Logic Pro 7		8	\$499.00			
Bias Peak Pro 5.2		8	\$399.00			
M-Audio ProTools 7.3		8	\$300.00			
FreeVerse Sound Studio 3.0.5		8	\$80.00			
MOTU Digital Performer 5.1		8	\$795.00			
Steinberg Nuendo 3.0		5	\$2,500.00			
Steinberg Wavelab 6.0		5	\$600.00			
Cakewalk Sonar 6.0		5	\$550.00			
Antares Avox Vocal Toolkit		2	\$500.00			
Antares Auto-Tune 5	2	\$399.00				
Waves SSL 4000 Plug-Ins	2	\$600.00				
Maintenance or Contractual Services	Item 1					
	Item 2, etc					
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			\$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.)	Security Cables/Locks	36	\$35.00	\$1,960.00		
	Bretford 16-Laptop Charging Cart	1	\$700.00			
	Item 3					
	Item 4, etc					
Other Expenses (explain)	Item 1			\$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				\$301,056.00		

10. 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:

This proposal would remain viable at 75% funding. Cuts would be required in the quality of video camcorder and the number of portable visualizers, and certain software titles with slightly overlapping capabilities would need to be cut entirely. In spite of these changes, this proposal would remain viable at this funding level.

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	Apple iMac 17" (2.0 GHz) Desktop Computer	34	\$1,430.00	
	Apple MacBook (White 13") Laptop Computer	14	\$1,427.00	
Equipment	Tascam DM-4800 Digital Mixer	1	\$5,000.00	\$69,071.00
	Supplies (Tascam MU1000 Meter Bridge)	1	\$750.00	
	Supplies (Tascam IFFWDM FireWire Interface)	1	\$400.00	
	Supplies (Tascam X-48 Multi-Track Recorder)	1	\$4,500.00	
	Supplies (Tascam IFAN 24x24 channel I/O)	1	\$370.00	
	Supplies (Tascam CD-RW 2000)	1	\$950.00	
	Supplies (M-Audio USB MIDI Interface)	2	\$50.00	
	Supplies (Glyph GT Keys-250 GB)	6	\$270.00	
	Supplies (Neumann KM 130 Condenser Mic)	2	\$1,200.00	
	Supplies (Neumann SBK 130 Diffusion Sphere)	2	\$80.00	
	Supplies (Shure SM 57 Dynamic Mic)	4	\$55.00	
	Supplies (Shure 58A Dynamic Mic)	2	\$350.00	
	Supplies (AKG C414 B-XLS Condenser Mic)	2	\$950.00	
	Supplies (Millennia HV-3D 8-Channel Preamp)	1	\$4,100.00	
	Supplies (Millennia NSEQ-2 Stereo Equalizer)	1	\$3,850.00	
	Supplies (Sony DCR-DVD105 DVD Camcorder)	8	\$479.00	
	Supplies (Panasonic AG-DV 1000 Mini DV VCR)	1	\$1,280.00	
	Supplies (WolfVision Portable Visualizer VZ-8 Plus)	4	\$3,650.00	
	Supplies (Sharp XR-20X Multimedia Projector)	4	\$1,079.00	
	Supplies (Panasonic PV-V4624S VCR)	4	\$70.00	
	Supplies (Philips 1080i HDMI DVD Player)	4	\$92.00	
	Supplies (Avenger A700 Junior Boom Stand)	5	\$275.00	
	Supplies (Apogee Rosetta 800 D/A Converter)	2	\$3,000.00	
	Audio/Video/Data Cabling	1	\$10,000.00	
Software (Note: Include Vendor and Product Name.)	Apple Symphony Orchestra Jam Pack	50	\$79.00	\$79,450.00
	Apple Rhythm Section Jam Pack	50	\$79.00	
	Garritan Personal Orchestra-Finale Edition	50	\$189.00	
	Parallels Desktop	50	\$80.00	
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	Bias Peak Pro 5.2	8	\$399.00	
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	MOTU Digital Performer 5.1	8	\$795.00	
	Steinberg Nuendo 3.0	5	\$2,500.00	
	Steinberg Wavelab 6.0	5	\$600.00	
	Cakewalk Sonar 6.0	5	\$550.00	
	Antares Avox Vocal Toolkit	2	\$500.00	
	Antares Auto-Tune 5	2	\$399.00	
	Waves SSL 4000 Plug-Ins	2	\$600.00	
Maintenance or Contractual Services	Item 1			\$0.00
	Item 2, etc			
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			\$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.)	Security Cables/Locks	36	\$35.00	\$1,960.00
	Bretford 16-Laptop Charging Cart	1	\$700.00	
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	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				\$225,607.00

This proposal would remain viable at 50% funding, although just barely. Severe cuts would be required in many categories, including laptop computers, microphones and many of the software titles. In spite of these drastic changes, this proposal would remain viable at this funding level since these machines would still be able to dual boot.

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.)	Apple iMac 24" Desktop Computer	1	\$2,176.00	\$50,796.00
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Equipment	Tascam DM-4800 Digital Mixer	1	\$5,000.00	\$61,036.00
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	Supplies (Panasonic PV-V4624S VCR)	4	\$70.00	
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	Supplies (Apogee Rosetta 800 D/A Converter)	2	\$3,000.00	
	Audio/Video/Data Cabling	1	\$10,000.00	
Software (Note: Include Vendor and Product Name.)	Parallels Desktop	50	\$80.00	\$37,200.00
	Bias Peak Pro 5.2	8	\$399.00	
	M-Audio ProTools 7.3	8	\$300.00	
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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				\$150,292.00

11. 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: \$1,430

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: \$1,427
3. Personal Digital Assistant (PDA): \$ 472
4. Tablet computer: \$1,984

The only pieces of computer equipment listed in Sections 9 & 10 above that exceed the standard capability and price are the three 24" iMacs that will be used as instruction stations, two in the Media Center classroom and one in the laboratory. The larger screens for these machines will help the instructor make demonstrations to the class and to have multiple windows open at once to teach students individually.

12. 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:

Please see attachment 4 below for information on the computers currently in use in the Media Center.

13. Prerequisite, Non-Technology Fee Funding

This grant proposal is not dependent on any non-technology fee funding.

14. Matching Funds

There are no matching funds for this grant proposal.

15. Staffing and Other Support Availability

Current School of Music staff will support this project.

16. Space Availability and Impact on Facilities

This project does not impact facilities.

17. Impact on Computing/Networking/Information Security Infrastructure

Information Security Review (Tammy Clark):

Impact: Yes

Assessment: Ensure that AV/ISS Proventia desktop software is installed on all computers—contact security@gsu.edu for instructions.

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: Vista may not be available and is not supported by IS&T.

18. Physical Security Needs

We are requesting physical security equipment for the computers in this grant. These needs are relatively small: we are requesting locks and cables to secure the desktop machines to the tabletop and a locking charging cabinet for the laptop machines when they are not in use.

19. Post-Project Assessment Criteria

An assessment of this proposal's success could be made by a visit to the Media Center after the funding was delivered, the hardware and software was purchased, and all the equipment was installed, connected and made available to the School of Music students. We plan on completing this task as quickly as possible, the end of the current calendar year (December 2007). After this, our students would have easy access in our Media Center to the type of equipment they will find in the professional world.

20. 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

GEORGIA STATE UNIVERSITY
Student Technology Fee FY 2008
Itemization of Equipment to be Replaced
Due to Obsolescence or Inadequacy

Unit: *College of Arts & Sciences*

Proposal Submitter: *Dr. Mark McFarland*

Proposal/Award Title: *Media Center Upgrade to
Dual-Boot Computers (Windows/OS X)*

If this proposal includes a request to replace old equipment with newer equipment due to obsolescence or inadequate performance, please itemize the specific machines or software to be replaced.

Station Number	GSU ID	Serial No.	Current Room Location	Make	Model	CPU	Mhz	Manu. Date
1	n/a	8WXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
2	n/a	3YXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
3	n/a	HWXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
4	n/a	9YXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
5	n/a	5X2TF51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
6	n/a	8X2TF51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
7	n/a	DYXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
8	n/a	1XXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
9	n/a	7XXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
10	n/a	9XXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
11	n/a	7YXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
12	n/a	DWXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
13	n/a	JXXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
14	n/a	4YXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
15	n/a	5YXS51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04

16	n/a	CXXSF 51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
17	n/a	DXXSF 51	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
18	n/a	4XXSF5 1	HH408	DELL	Optiplex GX60	Celeron	2400	Aug-04
19	n/a	GVT9L5 1	HH408	DELL	Optiplex GX270	Pentium 4	3200	Aug-04
20	n/a	D2N5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
21	n/a	4DN5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
22	n/a	8DN5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
23	n/a	HON5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
24	n/a	HDN5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
25	n/a	GCN5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
26	n/a	2CN5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
27	n/a	DCN5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
28	n/a	72N5B8 1	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
29	n/a	4CN5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
30	n/a	HCN5B 81	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
31	n/a	GHX6P 01	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05
32	n/a	4GCBN 01	HH400	DELL	Optiplex GX620	Pentium 4	2800	Aug-05

GEORGIA STATE UNIVERSITY Student Technology Fee FY 2008 Equipment Replacement Exception Form

Unit: *College of Arts & Sciences*

Proposal Submitter: *Dr. Mark McFarland*

Proposal/Award Title: *Media Center Upgrade to
Dual-Boot Computers (Windows/OS X)*

NOTE: If the equipment you are replacing is less than a Pentium® 4 1.5GHz processor speed, you do not have to complete this form. This has been adopted as a university-wide standard of minimum performance for operating the current Windows operating systems and office suite. Just state that you are using the university minimum performance criteria.

Otherwise, please complete the following:

Specify the performance criteria used to determine need to replace equipment. Be sure to indicate the software that must run effectively on the specific machines and the associated performance level (responsiveness, etc.) required for the software to be effective.

Apple represents a niche market in the computer world, but music represents a large part of this niche. This is to say that there are many software titles that are industry standards that run only in OS X. These titles include Digital Performer, Logic, Peak, Sound Studio and GarageBand. Other titles run with far fewer problems in OS X, most notably ProTools. The Media Center, the only lab that houses all hardware and software items necessary for music students, currently uses Dell machines. The selection of software for these machines was based on compatibility with Windows alone. As a result, our students are ill-prepared for professional work once they graduate. This proposal will remedy this serious problem.

Explain how the performance criteria listed above relate to your unit's organizational mission and its ability to deliver the intended service effectively.

With the recent advent of the Intel-based Mac, there is now a single computer that can boot into both Windows OS and OS X. Although our current Dell machines do not fall below the university's standard replacement threshold, they are insufficient for our needs due to their lack of compatibility with software written for OS X. The machines requested in this proposal will be able to boot into either Windows or OS X, so that all the software we currently own will still continue to function normally. The great benefit will be the additional compatibility with industry-standard software titles.

Identify the specific minimum hardware or software required to have the equipment or systems perform to the level identified in the criteria above.

The requested machines come equipped with BootCamp, which allows them to dual-boot. We are also requesting Parallels, software which allows Windows—either XP or Vista as this replaces its predecessor—to run within OS X. Both solutions offer equal Windows compatibility; Parallels eliminates the need to reboot in order to switch between OSes. The latter alternative is especially helpful when running multiple applications simultaneously, applications that previously would have required two separate machines. The last idea offers insight into the tremendous advantage of these dual-boot machines, especially in a discipline that is so heavily tilted towards OS X.