

✓
New PC quote attached

Student Technology
Fiscal Year 2006-07
Grant Proposals

Delivered to IS: 11/1/06
Date

Jennifer Lynn Martin
Signature

Dr. Jim McCrory: Approved Denied
Comment: We do not agree with the AMD
provision for the Dell PC. We can provide a quote
Signature: [Signature] Date: _____

Tim Chadbourne: Approved Denied
Comment: _____
Signature: [Signature] Date: 11/2/06

Gary Gatch: Approved Denied
Comment: _____
Signature: [Signature] Date: 11/7/06

Dale Martin: Approved Denied
Comment: _____
Signature: [Signature] Date: _____

Tyron/Diana: Approved Denied
Comment: _____
Signature: [Signature] Date: 1/6/09

FF

2007.001

Student Technology Fee
Funding Request Form
Grant Proposal Fiscal Year 2006-07
Northwestern State University of Louisiana

This document will not be accepted without complete information, detailed budget, specifications of each piece of equipment requested and pricing.

Prepared by: Malcolm T. Whitehead For: Exercise Science

Department/Unit College: Health & Human Performance College: Science & Technology Campus: Natchitoches

Which NSTEP Goals/Objectives does the project meet? Two (2), Three (3), & Eight (8)

Requested equipment will be located/installed/housed? Building P.E. Majors Room 123b

Are property policies and procedures in place by the department for equipment requested? Yes

Which individual will be responsible for property control of the requested equipment?

Signature: *Malcolm T. Whitehead* Date: 10/24/06

Grant Proposal Requested Amount: \$ 17187.30 Budget Attached (circle one): YES / NO

Delivery to the Student Technology office located in Watson Library, Room 113. Date 10/20/06 *10/24/06 Sam*

This grant proposal must include all specifications, description, model number, quotation, cost, state contract number, and vendor for each item. Proposal will be returned if information is not included in full.

1. Describe target audience.

Students who enroll in the University Core classes HED 1090 and HP 1110 will be able to utilize the equipment during specified class meetings. All students who enroll in HP 2630, 2270, 3550, 3560, 3561, and 4190 will utilize the equipment during most class meetings that are integrated with a laboratory component. These classes, or a combination thereof, are required for students who major in Health and Human Performance with concentrations in Physical Education and Health and Exercise Science, as well as those students who minor in Athletic Training.

2. Describe project/initiative for which you are requesting funds.

The Department of Health and Human Performance proposes to implement and utilize a physiological and biomechanical hardware and software package (BIOPAC, Dell Computer, Monark Ergometer) that will focus on analysis, synthesis, and the evaluation stages of cognitive development in students. The BIOPAC will allow the analysis and synthesis of new data and will consist of three components during the training of students in data acquisition and interpretation. These components include experimental

design, data collection, as well as analysis and evaluation of the data sets collected. This equipment will engage students in professional interests and thus increase retention as well as increase student competency with computer technology, and induce critical thinking through the application of problem solving.

3. State measurable objectives that will be used to determine the impact/effectiveness of the project.

The measurable objectives expected to be gleaned from the implementation of this project include an exposure to and an increased understanding of some of the methodology employed to collect data in experimental and non-experimental research, an augmented ability to interpret and draw conclusions from scientific data, and an enhancement of student's overall understanding of the scientific process.

4. Indicate how each project objective will be evaluated.

The project will be evaluated every semester by administration and evaluation of a Learning Outcome Survey, see Appendix 1. The survey will be administered to students prior to (beginning of the semester) and again after (end of the semester) they have had the opportunity to use the BIOPAC System.

5. If funded, which NSTEP (<http://www.nsula.edu/nstep/NSTEP.pdf>) objective will this funding of this project advance. How will funding of the project advance the University and College / unit technology plan?

This project will incorporate three of the ten NSTEP objectives including: (2) To provide classrooms with updated technology and multimedia, (3) To upgrade student technology laboratories with modern technology, (8) To encourage innovation and research. The project will advance the technology plan for the College of Science and Technology as well as the unit technology plan for the Department of Health and Human Performance by fulfilling objective (4) which is to upgrade laboratory equipment, specifically, the exercise physiology and motor learning laboratories.

6. Provide a justification for funding of the project. Estimate the number of students that will be served per academic year and in what ways. Please indicate also any unique needs of the target group.

Approximately 4,184 students per academic year could be served by this project based on current enrollment.

7. List those individuals who will be responsible for the implementation of the project/initiative and indicate their demonstrated abilities to accomplish the objectives of the project.

Dr. Malcolm T. Whitehead will be the individual responsible for implementation of the project. Dr. Whitehead has had several years of experience working with BIOPAC equipment in the collection and interpretation of data for scientific research projects.

8. Describe any personnel (technical or otherwise) required to support the project/initiative.

Information Systems at Northwestern State University will be integral in assistance with any computer specific concerns, and BIOPAC has technical support available for any requirements.

tech fee will be installing any software on tech fee machines. -JAM

9. Provide a schedule for implementation and evaluation.

The BIOPAC System will be implemented as soon as equipment is purchased, received, and installed. The impact of the BIOPAC will be evaluated every semester.

10. Estimate the expected life of hardware and software. Explain any anticipated equipment/software upgrades during the next five years.

Both the BIOPAC and Dell Computer should last for a minimum of 4-5 years. There are no upgrades anticipated for the BIOPAC or Dell Computer or associated software at this time.

11. Explain in detail a plan and policy that will be in place to ensure property security/controls for any equipment received through Student Tech Fee.

The equipment will be kept in a locked laboratory annex located within classroom number 123 in the P.E. Majors Building. During all times when the equipment is not in use the door to the laboratory will be locked. During normal business hours of the department (Monday-Friday 8:00am-4:30pm) the classroom will be open. At all times other than normal business hours, both the classroom and departmental building is kept locked. Therefore, during non-business hours there will be three (3) locked doors securing the equipment.

12. Attach a detailed budget, including: specs., description, cost, state contract number, and vendor for each item; cost of outside support personnel; and a description of how the proposal will support University/College/unit resources (i.e., cash match, funds from other sources, or reallocation of existing hardware/software or other equipment. **All of the information requested must be attached or the request will not be accepted.**

Please see Appendix 2 for budget.

Please see Appendices 3-5 for specifications and price quotes.

Appendix 3 – BIOPAC

Appendix 4 – Dell Computer

Appendix 5 – Monark Bicycle Ergometer

13. Attach a letter of support for the project signed by the requesting unit's Dean, the appropriate Vice President (for non-academic units), or the SGA President from the requesting campus (for student requests).

Please see Appendix 6 for letter of support from the Dean of the College of Science and Technology.

Appendix 1

Learning Outcome Survey

Class: _____ Semester: _____ Date: _____

SECTION 1 - MULTIPLE CHOICE

An individual was a subject in a research study investigating the physiological responses to resistance training. Using the data from figures 1 & 2 (indicated below) answer the following questions by selecting the corresponding letter.

1. What was the individual's heart rate when a weight of 125-kg was lifted?
 - a. 130 beats per minute
 - b. 140 beats per minute
 - c. 150 beats per minute
 - d. 160 beats per minute
2. At a blood pressure of 160 mm Hg, what was the individual's heart rate?
 - a. 130 beats per minute
 - b. 140 beats per minute
 - c. 150 beats per minute
 - d. 160 beats per minute
3. How would you best explain the relation between blood pressure and weight lifted?
 - a. Linear
 - b. Curvilinear
 - c. Exponential
 - d. No relation
4. How would you best explain the relation between blood pressure and weight lifted?
 - a. Linear
 - b. Curvilinear
 - c. Exponential
 - d. No relation

Figure 1.

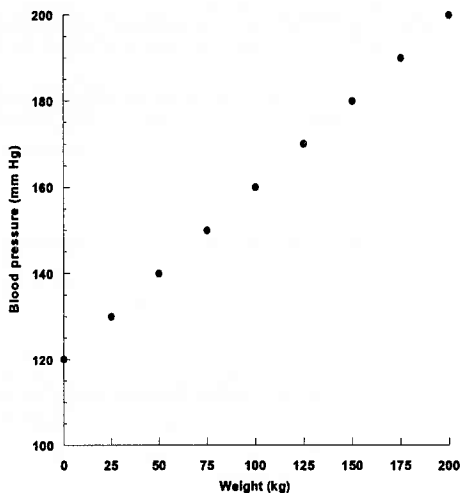
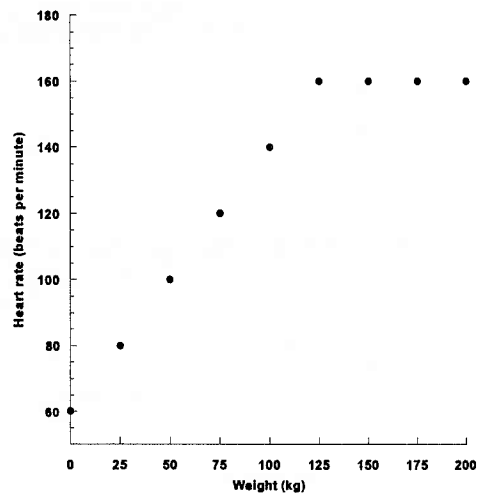


Figure 2.



SECTION 3 - True or False

Circle True if you think the statement is true and circle False if you think the statement is false.

5. **True or False** A hypothesis is a specific statement predicting what you think will happen in a study.
6. **True or False** A theory can be tested in an experiment or series of related experiments.
7. **True or False** When you test hypotheses, you ideally will reject all hypotheses that you test.
8. **True or False** Generally speaking, an increase in internal validity will increase external validity.
9. **True or False** Independent variables are free to vary and can cause change in dependent variables.
10. **True or False** In a study using pre-post testing, a control group will increase the external validity of the results.

SECTION 3 - Multiple Choice

Select the best answer to the following multiple-choice questions.

11. When you have demonstrated that an exercise program causes people in the study to lose weight, your study has strong:
 - a. internal validity
 - b. external validity
 - c. reliability
 - d. none of the above
12. In hypothesis testing, you try to find evidence to reject:
 - a. all hypotheses
 - b. the null hypotheses
 - c. the alternative hypotheses
 - d. your prediction
13. In a study where you educate half of the participants about proper nutrition but don't educate the other half, the group exposed to the education program is called:
 - a. contingency group
 - b. control group
 - c. treatment group
 - d. biased group
14. Specifying estimation procedures used in a study is important in establishing:
 - a. validity
 - b. reliability
 - c. both validity and reliability
 - d. outcomes

Appendix 2

Budget for BIOPAC and related equipment

Description	Cost
BIOPAC Exercise Physiology and Biomechanics base unit, with accessory packs, disposable filters, mouthpieces, noseclips, electrodes, electrode gel, and adhesive tape.	\$12,240.00 ✓
Dell computer, AMD Athlon 64, 512MB, 20 inch monitor, 16x DVD-ROM, and Cyber Power Emergency Battery Backup with Surge Protection.	\$1,148.30 ✓
Monark 894E Anerobic Test Ergometer, Chest Belt, and PC Software.	\$3,799.00 ✓
Total	\$17,187.30

Appendix 3



BIOPAC Systems, Inc.
42 Aero Camino
Goleta, CA 93117
USA
805-685-0066

Fax: (805) 685-0067
 Fed. Tax ID: 77-0256290

QUOTE

SALES ORDER #: 0014961
ORDER DATE: 9/26/2006
CUSTOMER NUMBER: NSULA01
SALESPERSON: Brett Denaro

SOLD TO:
 Northwestern St U H&HP
 Attn: Todd Whitehead
 Natchitoches, LA 71497

SHIP TO:
 Northwestern St U H&HP
 Attn: Todd Whitehead
 Natchitoches, LA 71497

Customer P.O.	Ship VIA UPS GROUND	Terms Net 30	Quote Expire Date 10/29/2006
Ordered	Item Number	Price	Amount
1.00	BSLEXP-W BSL Exercise Physiology/Biomec	0.00	4,795.00
1.00	BSLEXP-TA Exercise Phys Accessory Pack	0.00	4,325.00
1.00	BSLEXM-TA Biomechanics Accessory Pack	0.00	2,015.00
1.00	AFT1-250 Disp. Bact. Filter, 22mm 250pk	0.00	500.00
1.00	AFT2-250 Disp. Mouthpiece, 22mm 250pk	0.00	125.00
1.00	AFT3-250 Disp. Noseclip, 250 pk	0.00	175.00
1.00	EL503-10 Disp. vinyl electrode (1000)	0.00	200.00
2.00	GEL100 Electrode Gel, 227 g tube	0.00	15.00
1.00	GEL101 Isotonic Recording Electrd Gel	0.00	25.00
3.00	TAPE1 Single-sided Adhesive Tape	0.00	5.00

Net Order: 12,205.00
 Freight: 35.00
Order Total: 12,240.00

BIOPAC Systems accepts open purchase orders from American Universities and Corporations. All others must pay by direct transfer of funds to BIOPAC Systems, Inc. bank account, check (must clear prior to shipment), or by MasterCard/VISA/Discover/American Express. All funds in U.S. currency. Please note that custom items cannot be returned for exchange or refund.
 BIOPAC Systems, Inc. bank: Santa Barbara Bank and Trust Bank routing number: 122220593
 299 North Fairview Avenue, Goleta, CA 93117 Bank account number: 04542999
BIOPAC Systems charges tax to all customers in CA, CO, IL, IN, NM, and NY unless a tax exemption certificate is on file. Please fax tax exemption certificates to (805) 879-9889, Attn: Stacy.

Authorized by: _____

Accepted by: _____

Date: _____

Appendix 4



Dell recommends Windows® XP Professional

View/Print Cart

Print This Page

E-quote Number: 1000278088637

Saved By: Malcolm T Whitehead whiteheadm@nsula.edu	Phone Number: (318) 357-5133
Saved On: Thursday, October 12, 2006	Purchasing Agent:
Expires On: Monday, December 11, 2006	Notes/Comments:
Additional Comments:	

Description

Dimension C521 - New!
Date & Time: October 13, 2006 12:26 AM CST

SYSTEM COMPONENTS

Dimension C521 - New! AMD Athlon™ 64 3200+, Genuine Windows® XP Professional	Qty 1 Unit Price \$1,098.35
---	--------------------------------

Catalog Number: 25 E1104

Module	Description	Show Details
Dimension C521	AMD Athlon™ 64 3200+	
Operating System	Genuine Windows® XP Professional	
Memory	512MB Single Channel DDR2 SDRAM at 533MHz - 1DIMM	
Keyboard	Dell USB Keyboard	
Monitors	20 inch Ultrasharp™ 2007FP Digital Flat Panel	
Video Cards	NVIDIA GeForce 6150 LE Integrated Graphics GPU	
Hard Drives	160GB Serial ATA Hard Drive (7200RPM) w/DataBurst Cache™	
Floppy Drive and Media Reader	No Floppy Drive Included	
Mouse	Dell Optical USB Mouse	
Network interface	Integrated 10/100 Ethernet	
Modem	No Modem Requested	
Adobe Software	Adobe® Acrobat® Reader 7.0	
CD or DVD Drive	16X DVD-ROM Drive	
Sound Cards	Integrated 7.1 Channel Audio	
Speakers	Dell A225 Speakers	
Office Productivity Software	Microsoft™ Office® 2003 Professional	

(Pre-Installed)	Academic RW
Security Software	McAfee Security Center w/VirusScan, Firewall and Privacy, 90-day trial
Digital Music	No Digital Music Software Requested
Digital Photography	No Digital Imaging Software Requested
Limited Warranty, Services and Support Options	3 Year Limited Warranty plus 3 Year NBD On-Site Service
Internet Access Service	No ISP requested
Future Operating Systems	Windows Vista™ Capable
Operating System Backup & Recovery	Microsoft® Windows® XP Professional backup CD

ACCESSORIES

CyberPower CP550SL 550 VA UPS	Qty	1
Dell Part# A0513680	Unit Price	\$49.95
		TOTAL:\$1,148.30

	Total Price
Sub-total	\$1,148.30
Shipping & Handling¹	--
Tax²	--
State Environmental Fee²	--
More Info	
Total Price³	--

¹ Shipping costs are currently unavailable in the Dell Online Store for your order. The shipping amount for the shipping option you have selected will be added to your invoice upon receipt of your online order.

² Applicable sales taxes are currently unavailable in the Dell Online Store for your order. The amount of sales tax applicable for the items you have selected will be added to your invoice upon receipt of your online order.

³ For shipments of certain products to California, state environmental fee of up to \$10 per item will be added at order invoice. For shipments of other products, state environmental fee will be applied to your invoice. Pricing, specifications, availability and terms of offers may change without notice and are not subject to other discounts or promotional offers. Taxes, fees, shipping and handling and any applicable restocking charges are extra, vary, and are not subject to other discounts or promotional offers. Dell cannot be responsible for pricing or other errors, omissions, or consequences of misuse of site and cancel orders arising from such errors. Refer to your invoice for final information regarding order detail, including tax & shipping amounts. Prices shown on online display. Additional terms and conditions may apply. All sales are subject to Dell's Terms and Conditions of Sale located at www.dell.com or on Dell's website.

Picture is for illustrative purposes only. Price may increase or decrease depending on options selected.

Appendix 5



Order Online 24/7
Or Call 888-867-1945

YAHOO! SHOPPING
☆☆☆☆½

Search



Home > Cardio > Exercise Bikes > Monark 894E Anerobic Test Ergometer

Contact Us Email Us Shipping Info Mail/Fax Form Shopping Cart FAQ Lease Financing
Best Selection of Fitness Equipment - Exercise Equipment - Home Gyms - Treadmills - Dumbbells - Free Weights - Ellipticals - Barbells - Home
Equipment - Exercise Bikes - Rowing Machines - Leg Presses - Gym Equipment - Fitness Accessories - Commercial Fitness Equipment -

[Strength]

Abs / Core Fitness
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Back Exercise Equipment
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Cable Crossovers
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Dumbbells
Dumbbell Racks
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Squat & Power Racks
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[Cardio]

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Boxing / Martial Arts
Ellipticals
Exercise Bikes
Fitness Walking
Indoor Cycling / Spinning
Rehabilitation Equipment
Rowing Machines
Stair Climbers / Steppers
Treadmills

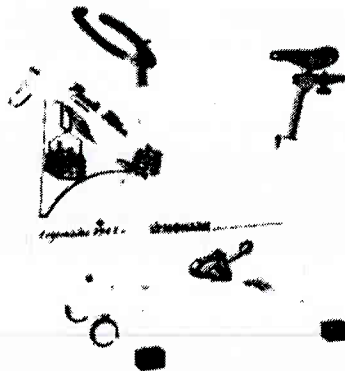
[Accessories]

Ankle Weights / Vests
Aqua Fitness Equipment
Balance & Stretching
Bars & Collars
Body Fat Testers
Books / Videos / DVD's
Cable Attachments
Charts - Fitness
Gloves & Wraps
Heart Rate Monitors
Inversion Therapy
Jump Ropes
Mats & Flooring
Medicine Balls
Nutrition
Personal Training
Pilates Fitness
Resistance Bands
Scales/Exercise
Sports Performance
Stability Balls
Steps & Trampolines
Weighted Bars
Weightlifting Accessories
Weightlifting Belts
Yoga Exercise Equipment

Commercial Exercise
Equipment

Package Deals

Monark 894E Anerobic Test Ergometer



FREE SHIPPING!

FG650 \$3,799.00

Add To Cart

During the development of the anaerobic ergometer the focus was to create a safe bike that to use, combined with an attractive design. The result is Monark Ergomedic 894 E Peak Bike, a new bike however, still with the traditional characteristics of a Monark bike. A brand new frame, a softer design, but with improved performance regarding stability and rigidity. The Windows software, with more setting possibilities and a clear presentation graphic, is easy to use. The double sensors, faster electronics and improved mechanics we minimize the possibility for problems during the work with anaerobic tests. The Peak Bike also works as a regular weight ergometer.

Features:

- Large, well-balanced flywheel 22 kg (48 lbs)
- Adjustable saddle; vertically and forward/backwards
- Adjustable handlebar with quick release lever
- Stable frame, solid steel tube
- Powder coated paint finish
- Wheels for easy transport
- Chestbelt and PC Software are included

Dimensions:

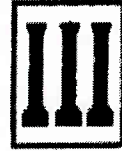
- Width 21" at handlebar
- Width 26.5" at support tubes
- Length 44"
- Height 35-44.5" at handlebar
- Height 31.5-44" at seat
- Height 40.5" at front
- Weight 144 lbs.

Warranty:

Appendix 6



COLLEGE OF SCIENCE & TECHNOLOGY
OFFICE OF THE DEAN



October 19, 2006

To Members of the Technology Selection Committee:

I am pleased to send this letter as proof of my support for the technology grant proposal submitted by Dr. Todd Whitehead. Dr. Whitehead's proposal is a reasonable request for cutting edge technological instruments to enhance the laboratory experiences for students. The acquisition of these instruments creates opportunities for our students to use the same types of instruments which they will find when they enter the workforce. The use of these instruments will open research and collaborative venture opportunities at the undergraduate and graduate levels.

Thank you for serving on this committee and for your careful consideration of this proposal.

Very truly yours,

Austin L. Temple Jr., Ph.D.
Professor of Mathematics
Dean, College of Science and Technology



Close

Dell recommends Windows® XP Professional

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Description



OptiPlex 745 Small Form Factor

Date & Time: November 13,2006 3:16 PM CST

SYSTEM COMPONENTS

OptiPlex 745 Small Form Factor Qty 1
 Intel® Core™ 2 Duo Processor E6400 (2.13GHz, 2M, 1066MHz FSB), Genuine Windows® XP Professional, SP2, Unit Price \$1,617.63 x32, with Media, English

Catalog Number: 25 E1778

Module	Description	Show Details
OptiPlex 745 Small Form Factor	Intel® Core™ 2 Duo Processor E6400 (2.13GHz, 2M, 1066MHz FSB)	
Operating System(s)	Genuine Windows® XP Professional, SP2, x32, with Media, English	
File System	NTFS File System for all Operating Systems	
Memory	1.0GB DDR2 Non-ECC SDRAM, 667MHz, (1DIMM)	
Keyboard	Dell USB Keyboard, No Hot Keys, English, Black	
Monitors	Dell 20 inch UltraSharp™ 2007FP Flat Panel, Adjustable Stand, VGA/DVI	
Video Card	128MB ATI Radeon X1300 (1 DVI/1 TV-out), low profile	
Boot Hard Drives	160GB SATA 3.0Gb/s and 8MB DataBurst Cache™	
Floppy Drive and Media Card Reader Options	Dell 13 in 1 USB Media Card Reader	
Mouse	Dell USB 5-Button Premium Optical Mouse, Black	
Lead Free Motherboard	RoHS Compliant Lead Free Chassis and Motherboard	
Removable Media Storage Devices	8X Slimline DVD+/-RW	

Speakers	Dell AS501 Sound Bar for all UltraSharp Flat Panel Displays (Black)
Resource CD	No Resource CD
Dell Energy Smart	Dell Energy Smart Enable
Security Hardware	Chassis intrusion switch option
Optical Drive Enhancement Software	Cyberlink Power DVD™ and Roxio Creator™ Dell Edition
Hardware Support Services	4 Year Limited Warranty plus 4 Year NBD On-Site Service
Installation Support Services	No Onsite System Setup
Express Upgrade to Windows Vista	No Express Upgrade to Windows Vista Selected
Labels	Vista Capable Sticker

TOTAL:\$1,617.63

	Total Price
Sub-total	\$1,617.63
Shipping & Handling	\$0.00
Tax *	--
Total Price *	--

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NORTHWESTERN STATE
UNIVERSITY OF LOUISIANA
Natchitoches, LA 71497

Student Technology
Watson Library, Room 113

Telephone (318) 357-6482
FAX (318) 357-6480

January 10, 2007

Mr. Malcolm Whitehead
Northwestern State University
Health & Human Performance
Natchitoches, LA 71497

Dear Mr. Whitehead,

It is with pleasure that the STAT (Student Technology Advisory Team) has fully funded your grant proposal for Fiscal Year 2006-07 in the amount of \$17,187.30.

Ordering of equipment listed in the grant proposal will take place during the month of January.

Please be reminded that your grant was funded through Northwestern Student Technology Fees, all equipment purchased, therefore, must be used exclusively and directly for/by Northwestern students.

You are commended for, and encouraged to continue your efforts to enrich the learning environment for students at Northwestern State University. Your time, effort, and vision in service of the students are greatly appreciated. If you have questions or need additional information please contact me by phone or via email at: long@nsula.edu.

Sincerely,

Jennifer Long Martin
Student Technology

cc: Dr. Bill Dickens