

Student Technology Fee

Grant Proposal

2010.023

2009-10

Tracy Brown



Approved

Denied

Comment: \_\_\_\_\_

Diana Hamilton



Approved

Denied

Comment: \_\_\_\_\_

Gary Gatch



Approved

Denied

Comment: \_\_\_\_\_

Mike McDonald/James Leonards

Approved

Denied



Comment: \_\_\_\_\_

Dale Martin

Approved

Denied

Comment: \_\_\_\_\_



Student Technology Fee  
Grant Proposal Request Form  
Fiscal Year 2009-10

PF

#5  
2010.023

Northwestern State University of Louisiana

**ALL BLANKS MUST BE FILLED COMPLETELY**

Prepared by: Dr. Wanda L. Goleman For: Dr. Wanda L. Goleman

Department/Unit: Biological Sciences College: Sci & Technol Campus: NSU Main Campus

Which NSTEP Goals/Objectives does this project meet? Goals 1 and 2; Objectives 1, 2, and 3

Requested equipment will be located/installed/housed? Building Bienvenu Hall Room 304

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

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

Signature: Dr. Wanda L. Goleman Date: 11/2/09

Grant Proposal Requested Amount: \$ 5823.12 Budget Attached (circle one): YES/NO

Grant delivered to Student Technology located in Watson Library, Room 113. Date 11/02/09

**The grant proposal must include all specifications, description, model number, quotation, cost, state contract number, and vendor for each item. If the proposal does not include all requested information, it will be returned to requestor.**

1. Describe target audience.

Biology 2231 Human Physiology: This course is taken primarily by pre-nursing, pre-pharmacy, psychology, and health and human performance majors. Some education majors also opt to take this course.

Biology 3311 & 3312 Human Anatomy and Physiology Laboratory I & II: This is a two-semester course aimed at upper level biology students, specifically students in the Biological Sciences biomedical, pre-physical therapy, pre-occupational therapy, pre-pharmacy, pre-med, and pre-vet concentrations. Additionally, some health and human performance majors also take these courses.

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

Our current pH meters do not maintain probe fluids, continually turn off while taking measurements, and are difficult to calibrate. This leads to inaccurate results and student frustration. I would like to replace our current pH meters with Accumet pH meters model AB15

from Fisher Scientific.

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

- 1) Students will attain a greater understanding of physiological mechanisms through more accurate experimental results.
- 2) Retention of students in each course will increase.

4. Indicate how each project objective will be evaluated.

- 1) Students will demonstrate a greater understanding of physiological mechanisms involving pH reflected in improved test scores.
- 2) Retention of students in each course will be reflected by a decrease in student withdrawals from each course.

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

New pH meters for use by physiology students will advance the following NSU technology enrichment goals:

Goal 1: Northwestern State University will endeavor to create and maintain a responsive, student-oriented environment.

Goal 2: Northwestern State University will provide programs, services, and operations throughout the University of high quality and effectiveness.

NSTEP objectives accomplished through this upgrade based on the above stated goals are:

- 1) To improve access to technology by students, faculty, and staff at Northwestern State University.
- 2) To provide classrooms with updated technology and multimedia.
- 3) To upgrade laboratories with modern technology.

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

For an adequate understanding of physiology, students need properly functioning equipment. For students taking Biology 2231, 3311, and 3312, new pH meters will provide more accurate results, thus leading to a better understanding of physiological processes.

Biology 2231 Human Physiology: This course has had an average enrollment of 264 students per year for the past three years.

Biology 3311 & 3312 Human Anatomy and Physiology Laboratory I & II: Enrollment for Biology 3311 for the last two fall semesters has been 33-34 biology students. Biology 3312 had an enrollment of 12 students during the 2009 spring semester (the first semester it was taught) which is expected to increase for the 2010 spring semester to a minimum of 32.

<p>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.</p> <p>Dr. Wanda L. Goleman I have been teaching anatomy and physiology laboratories for 14 years.</p>
<p>8. Describe any personnel (technical or otherwise) required to support the project/initiative.</p> <p>Dr. Wanda L. Goleman I have sufficient knowledge to set up and use pH meters.</p>
<p>9. Provide a schedule for implementation and evaluation.</p> <p>The use of new pH meters will be implemented the semester they are received as appropriate.</p>
<p>10. Estimate the expected life of hardware and software. Explain any anticipated equipment/software upgrades during the next five years.</p> <p>Accumet pH meters, model AB15, is warranted to the end user to be free from defects in materials and workmanship under normal use for a period of three years. The probe has a 12 month warranty.</p> <p>No upgrades are expected within five years.</p>
<p>11. Explain in detail a plan and policy that will be in place to ensure property security/controls for any equipment received through a Student Technology Fee.</p> <p>If you are requesting equipment that will be either/or checkout to students or moved within the department, you must provide a checkout/loan policy.</p> <p>All hardware will be maintained in the laboratory. Students are not allowed to check out the software. Doors to the laboratory remain locked unless an instructor is present.</p>

Attach two (2) letters of support for the project from the following individuals: the requesting department's Dean, the appropriate Vice President (for non-academic units), or the SGA President from the requesting campus (for student requests).

Student Technology Fee Grant Proposal Checklist:

- Is all information requested provided (items 1 – 11)?
- Is a detailed budget attached?
- Is all specifications, description, model number, quotation, cost, state contract number, and vendor provided for each item?
- Are your two (2) letters of support attached?
- N/A If equipment is to be checked-out/loaned, is your policy attached?

**PROPOSED BUDGET:**

Student Technology  
Fee Money Requested

			Total
Accumet Biobasic pH meter, model AB15 w/ probes	\$727.89	8 units	\$5823.12
Shipping	\$0		\$0
Total costs			\$5823.12

-4 7282

pH meters  
\$ 5823.12

I am requesting funding to purchase eight Accumet pH meters, model AB15, for our anatomy/physiology laboratories for student use. Life expectancy for these meters is at least 5 years, so the impact to approximately 330-350 students per year is expected to be \$5 - \$6 per year per student for five years.

Accumet Biobasic pH meter, model AB15 w/ probe  
Cat. N. 13 636 AB15B

Sales representative: Michelle Han  
Vendor: Fisher Scientific  
4500 Turnberry Drive  
Suite A  
Hanover Park, IL 60133  
Phone: 630-283-9517  
Email: michelle.han@thermofisher.com  
[www.fishersci.com](http://www.fishersci.com)

Please see attached quote.

F I S H E R   S C I E N T I F I C  
Q U O T A T I O N

OCTOBER 21, 2009

PAGE: 1

ACCOUNT NBR: 481040-001  
 QUOTE NBR: 9294-2082-39  
 TERMS: NET 30 DAYS  
 DUE DATE:  
 SALES REP: MICHELLE HAN

REQUESTOR: WANDA GOLEMAN  
 PHONE: 3183575329  
 FOB: SP  
 AUTHORIZED BY: HAN

CUST REF NBR RFQ 10/21/09

NW STATE UNIV  
 998 S JEFFERSON ST  
 CENTRAL RCVG  
 NATCHITOCHEES LA 71497

FISHER SCIENTIFIC COMPANY LLC  
 9999 VETERANS MEMORIAL DR  
 HOUSTON TX 77038

PHONE: (800) 766-7000  
 FAX: (800) 926-1166

\*\*\* PRICES ARE FIRM THRU 11/20/09 \*\*\*  
 PLEASE REFER TO THE QUOTE NBR ON ALL CORRESPONDENCE  
 THANK YOU FOR YOUR INTEREST IN FISHER SCIENTIFIC COMPANY LLC

NBR	QTY	UN	CATALOG NBR	DESCRIPTION	UNIT PRC	EXTD PRC
1	8	EA	13 636 AB15B	ACCMT BIOBAS AB15B PH KIT 115V	727.89	5,823.12
				MERCHANDISE TOTAL		5,823.12

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<http://survey.medallia.com/fishersci> PASSCODE: USA-PGH-CS1

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**COLLEGE OF SCIENCE & TECHNOLOGY**  
**OFFICE OF THE DEAN**



Student Technology Fee Grant Proposal Committee

Dear Committee Members:

I am please to write this letter of support in behalf of a grant proposal written by Dr. Wanda Goleman. Dr. Goleman is proposing to upgrade the equipment in the human anatomy and physiology laboratories. Microscopes, computers, pH meters, Biopac software and probes are the items requested . The acquisition of these items will enhance learning, and provide up to date instrumentation for the students. Lightly less than 300 students per year are enrolled in these classes. Thank you for serving on this very important committee and for your consideration of this proposal.

Very truly yours,

Austin L. Temple Jr., Ph.D.

Dean, College of Science and Technology





**DEPARTMENT OF BIOLOGICAL SCIENCES**  
**COLLEGE OF SCIENCE & TECHNOLOGY**  
Phone (318) 357-5323, Fax (318) 357-4518



October 30, 2009

Ms. Jennifer Long Martin  
Student Technology Office  
Watson Library

Ms. Long,

I am writing in support of Dr. Wanda Goleman's Student Tech Fee grant proposal to update equipment in the physiology lab of the Department of Biological Sciences. This lab serves a large number of students from several colleges and departments including nursing, biology, health and human performance and psychology. Dr. Goleman seeks funds to replace and update computers and lab equipment. Funding of this grant would enhance the learning experience of our students and Dr. Goleman and several other faculty members would take full advantage of it.

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Zafer Hatahet".

Zafer Hatahet, Ph.D.  
Professor and Chair