

2009.0045



Student Technology Fee
Funding Request From
Surplus Funds for Fiscal Year 2008-09
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: Zafer Hatahet For: Biology Department University Campus: CenLa

College: Science and Technology Campus: Natchitoches Department: Biological Sciences

Where will requested equipment be located/installed/housed: Bldg. R1901 (CenLa) Room 230

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

Delivery to the Student Technology office located in Watson Library, Room 113. Date 4/3/2009

- | |
|--|
| 1. Describe target audience
Students enrolled in BIOL2211 (Microbiology for Nursing and Allied Health Majors Laboratory) and 2231 (Human Physiology Laboratory). |
| 2. Describe project/initiative for which you are requesting funds.
The Biology Department serves a large number of nursing and rad tech majors by offering courses in microbiology, human anatomy and physiology and human genetics. Three of these courses (BIOL2210, 2220 and 2230) that until this semester were only available at the Natchitoches and Leesville campuses. Considering that a significant proportion of the student taking these courses commute from the Alexandria area, we have decided to offer them at the CenLa campus. However, this is contingent upon furnishing a functional laboratory space with basic equipment such as a sterilizing autoclave, microscopes, balance, water purification system, etc. |
| 3. State measurable objectives that will be used to determine the impact/effectiveness of the project.
a. Offer BIOL2211 and 2231 labs at the CenLa campus.
b. Deliver course material and experience comparable to that available at the Natchitoches and Leesville campuses. |
| 4. Indicate how each objective will be evaluated.
a. The schedules of courses should be checked to make sure that at least one section of BIOL2211 and 2231 will be offered every semester.
b. Syllabi for BIOL2211 and 2231 sections offered at CenLa will be monitored to make sure that the material delivered is comparable to that available at the Natchitoches campus.
c. Student evaluations will be monitored to gauge student perception of the quality of material delivered at the CenLa campus. |
| 5. Provide a justification for funding 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.
a. Currently 130-140 students enroll in human physiology and microbiology lab sections offered at the Natchitoches campus every semester. We anticipate that a minimum of 20-30 will opt to take these labs in Alexandria if they are able each semester. |

b. Many of the students who take these labs are ASN to BSN conversion students who pursue their education while holding a full time job. Reducing the need to commute (many work in the Alexandria area) would be of great benefit to them.

6. 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 help fulfill at least three NSTEP objectives, namely,

- *Objective 3: To upgrade student technology laboratories with modern technology.* As already mentioned, the immunology lab (currently located in Kyser Hall) has until recently offered 1960 and 1970s. Updating the curriculum to include standard modern techniques such as Southern, Northern and Western Blotting, ELISAs, and EMSAs would be an essential improvement.

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?

- a. The microbiology lab (BIOL2211) will be taught by Dr. Bridget Joubert. She has taught microbiology at NSU since 2002.
- b. The physiology lab (BIOL2231) will be taught by Dr. Leann Sticker. She has taught this course at the Leesville campus since 1994.

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

Other than the faculty members listed in item 7, no further personnel would be needed.

9. Provide a schedule for implementation and evaluation.

- a. Implementation. Pending availability of funds, the equipment can be purchased and installed within 4-8 weeks, in time for the 093 semester.
- b. Evaluation.
 - i. Syllabus evaluations will be performed at the end of each semester in the three academic years following purchase of the equipment.
 - ii. Student evaluations will be surveyed for three academic years following update of the course syllabus.
 - iii. Enrollment in each of these courses will be monitored for the next three years.

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

- a. Based on my experience, the hardware should easily last 10 years..
- b. No software is involved.

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 Tech Fee grant

All equipment will be housed in secured laboratory space. Funds are requested to purchase cabinets to keep the microscopes under lock and key.

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.**

See attached document.

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).

List of requested equipment, with cost and justification

Item	Proposed Vendor	Catalog number	Units Requested	Cost/Unit \$	Total cost \$	
Compound light microscope, Nikon Model E200.	Nikon	MCA74201	12	1400.00	16,800	✓
Microscope cabinet, VWR model WLG2007-38	VWR	WLG2007-38	1	2,591	2,591	✓
Portable autoclave, Sanyo model MLS-3781L	VWR	MLS-3781L	1	16,459	16,459	✓
Water purification system, Labconco model 9000601	VWR	26301-856	1	4,695	4,695	✓
Incubator, VWR Signature model 1565	VWR	35823-300	1	4,940	4,940	✓
Analytical Balance, Metler-Toledo PL-S series	VWR	89042-506	1	1,543	1,543	✓
Refrigerator/freezer, GE Model GTS21KCXWW	Lowe's	196607	1	798	798	✓
Bunsen Burners	Fisher	S49107	12	19.08	229	✓
Ceramic top hotplate/stirrer	Fisher	S50448HP	2	352.80	706	✓
					48,761	

295671

Justification

- All of the requested equipment are bare minimum requirements and are indispensable for the functioning of a teaching microbiology.
- Items required in multiples were limited to the smallest practical number, e.g., 12 microscopes will be shared by 24 students in each lab section.
- The brands and models suggested were selected to achieve uniformity between the different campuses. For example, we currently use Nikon Model E200 microscope on the Natchitoches campus. It should be noted however that each particular model was initially selected at the Natchitoches campus because of its cost-effectiveness, reputability of the manufacturer or both.
- Many of the items are available at discounted prices through the State of Louisiana contract with VWR. The dollar values quoted above reflect discounted prices.



Nikon Instruments, Inc.

1955 Lakeway Dr. - Suite 250B - Lewisville, Tx. 75057
 Phone: 888-424-0880 - Fax: 888-473-9511 - Email: wbouchon@nikon.net

QUOTATION

Date	Quote #
10/20/08	WPHNQ1333-05

Sold To: NORTHWESTERN STATE UNIVERESITY
 Dr. Zafer Hatahetz
 Natchitoches, La.

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 wbouchon

Terms	Delivery	FOB	Ship Via
NET 30	60-90 Days	destination	UPS

NIKON E200 Microscopes

Qty	Product #	Description	Unit Price	Ext Price
16	MCA74201	NIKON E200 Main Body (120V) Right side fine focus, left side coarse & fine focus with tension adjust knob/ Quadruple nosepiece, mechanical stage right handle , Exclusive "push-to drop" refocusing mechanism, halogen illuminator base for 6v,20w halogen bulb with up front removal, field lens unit without diaphragm, halogen lamp 6V-20W, vinyl cover, Power Cord 120v E2-TB Binocular Eyepiece Tube (exclusive-binocular rotates 180 degrees to adjust height) Anti-mold Eyepiece CFI E 10X (Field No. 20) - two eyepieces provided adjustable, E2-C Abbe Condenser N.A. 1.25 with aperture diaphragm marked in objective magnifications, filter holder (33mm) Blue filter 33mm CFI E Plan Achromat 4X, N.A. 0.10, W.D. 30mm CFI E Plan Achromat 10X, N.A. 0.25, W.D. 7mm CFI E Plan Achromat 40X, N.A. 0.65, W.D. 0.65mm , spring-loaded CFI E Plan Achromat 100X oil, N.A. 1.25, W.D. 0.23mm, oil-immersion, spring-loaded Immersion Oil A, 8cc	\$1,402.50	\$22,440.00
16	MCM78500	E2-EP Eyepiece Pointer	\$4.50	\$72.00
16	MXA20415	Cord Hanger for E200	\$9.75	\$156.00

5 yr. Mechanical and 1 yr. Electrical warranty. All parts and accessories must be interchangeable or compatible with existing Nikon E200 in department



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CABINET, MICROSCOPE, 30, WOOD
Supplier: KEWAUNEE SCIENTIFIC CORP SE

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Description	VWR Catalog#	Unit	Your Price	Qty
CABINET, MICROSCOPE, 30, WOOD	WLG2007-38	Each	\$2,591.60	<input type="text" value="0"/>

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MLS Series Portable Top-Loading Autoclaves, Sanyo*
Supplier: Sanyo

Find Similar Items in Product Category Autoclaves/Sterilizers, Stand-Alone

Supplier: Sanyo



Space-efficient portable autoclaves provide a convenient alternative to using a centralized building autoclave for sterilizing media and instruments. These units are designed for individual lab use and can be conveniently wheeled from one lab to another. Model **97002-402** has a low enough profile to be stored under a lab bench when not in use. Both autoclaves feature a total of 12 preset programs to choose from on a simple-to-operate control panel with LED temperature and timer indicators. Programs are grouped by four functions — sterilizing, sterilizing/keep warm, melting/keep warm, instrument sterilizing — with three variations each. Despite the compact outer dimensions of these autoclaves, they can hold eight (**97002-402**) or 12 (**97002-404**) 1L flasks.

To ensure safety, the swing-up autoclave door remains locked when pressure or temperature is high. Other safety features include an insulated pressure valve, over-temperature limiter, short circuit breaker, and scorch-prevention function. Autoclaves are made with heat-insulating resin coating, rounded corners, top-mounted control panel, clip-on drainage hose, exhaust tank that is easy to fill and empty, and lever locking system. Sterilizing temperature is controlled by the microprocessor to within 2°C of the set temperature in the 115 to 135°C (239 to 275°F) range. Prerecorded voice messages announce each step of the process. Integrated cool-down fan decreases waiting time to access sterilized contents. Air vent control can be set to allow automatic release after sterilizing is complete.

Wire baskets are stackable with no protrusions on the outer surface. Each basket holds four 1L flasks or two 50-tube racks. Each perforated bucket holds a 3L flask. Perforated bucket **14236-054** is stackable. Waste materials can be put directly into solid buckets for sterilization. Both perforated and solid buckets have a handle and a smooth inner surface to prevent sterilization bags from tearing.

	97002-402	97002-404
Exterior Dimensions:	47.8W x 63.2D x 74.8H cm (18 ¹³ / ₁₆ x 24 ⁷ / ₈ x 29 ⁷ / ₁₆ ")	47.8W x 63.2D x 96.5H cm (18 ¹³ / ₁₆ x 24 ⁷ / ₈ x 38")
Chamber Dimensions:	37dia. x 41.5D cm (14 ⁹ / ₁₆ x 16 ⁵ / ₁₆ ")	37dia. x 64D cm (14 ⁹ / ₁₆ x 25 ³ / ₁₆ ")
Usable Chamber Height*:	48 cm (18 ⁷ / ₈ ")	70.5 cm (27 ³ / ₄ ")
Sterilization Temperature:	115 to 135°C (239 to 275°F)	115 to 135°C (239 to 275°F)
Maximum Pressure:	235 kPa (34.14 psi)	235 kPa (34.14 psi)
Unit Weight:	61 kg (134.5 lbs.)	70 kg (154 lbs.)
Electrical:	120V, 60Hz, 20A	208/230V, 60Hz, 30A
*Includes recess in lid.		

Ordering Information: Autoclaves include one-year manufacturer's warranty, drain hose, exhaust tank, exhaust hose, tank mounting bracket, and NEMA locking plug. Model **97002-402** is supplied with two stainless steel wire mesh baskets. Model **97002-404** is supplied with three stainless steel wire mesh baskets. Object temperature sensor **97002-410** can be installed to measure temperature of items in the autoclave chamber and to set the sterilization timer. This sensor is suitable for materials that heat up more slowly than the chamber, such as resins. Object temperature sensor must be purchased separately. Thermal printer **97003-756** can be installed for printing date- and time-stamped process run results: temperature, pressure, and time. Printer must be purchased separately. VWR offers validation services including IQ, OQ, and PQ protocol development and execution (in US only); visit vwr.com or call 1-888-793-2300 for more details.

Capacity, L (cu. ft.)	Sanyo No.	VWR Catalog#	Unit	Your Price	Qty
50 (1.8)	MLS-3751L	97002-402	Each	\$11,079.00	0
72 (2.6)	MLS-3781L	97002-404	Each	\$16,459.00	0
Perforated Buckets					
33dia. x 20H cm (13 x 11 ¹³ / ₁₆ ")	MLS-37PB30	14236-054	Each	\$570.00	0
33dia. x 40H cm (13 x 15 ³ / ₄ ")	MLS-37PB40	14236-056	Each	\$677.00	0
Solid Buckets					
33dia. x 30H cm (13 x 11 ¹³ / ₁₆ ")	MLS-37C30	14236-058	Each	\$570.00	0



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WaterPro* PS/HPLC and PS HPLC/UF Hybrid Polishing Stations, Labconco*

Supplier: Labconco

Find Similar Items in Product Category
Accessories for Water Purification Systems

Supplier: Labconco



Designed for analytical and research labs requiring Type I (up to 18.2 megohm-cm) water having total organic carbon (TOC) levels <5 ppb. Stations include pure polypropylene bowls for one activated carbon cartridge, two deionization cartridges, and one organic adsorption cartridge (not included). Required polishing kit **30181-398** includes one cartridge for each bowl.

Automatic continuous recirculation through the polishing loop maintains water quality, minimizes bacterial growth, and reduces rinse-up time. A TOC flush valve allows a small portion of the purified water to drain during automatic recirculation so a low TOC level is maintained. In-line dual UV reactor (185nm and 254nm wavelengths) reduces bacteria and organic chemicals. Stations include a power switch, LED water purity level display, and timed control dispensing valve which offers delivery up to 1.8L per minute. Steel cabinets measure 79.1Wx19.6Dx21.9Hcm (31¹/₈x7³/₄x8⁵/₈"). The overall height with bowls attached is 73.3cm (28⁷/₈").

Models **26301-855** and **26301-676** have a dispensing valve. Models **26301-856** and **26301-854** have the dispensing valve and a hand-held dispensing gun with 0.91m (3') recirculating line. Models **30181-412** and **-414** dispense only HPLC water from the valve and only ultra-filtered (pyrogen-free) water from the gun. Dispensing module(s) are incorporated within the polishing station — no separate module is required.

The 220V models are CE marked.

Ordering Information: Manufacturer's one-year warranty on parts and labor. Stations include 2.4m (8') three-wire cord. Optional hollow fiber final filter can be used on dispensing valve or gun to remove all particulates and bacteria larger than 0.2µm in diameter.

Description	Electrical	Labconco No.	VWR Catalog#	Unit	Your Price	Qty
WaterPro PS/HPLC Polishing Station	115V, 60Hz, 7.5A	9000600	26301-855	Each	\$3,995.00	0
WaterPro PS/HPLC Polishing Station	230V, 50Hz, 4A	9000602	26301-676	Each	\$4,040.00	0
WaterPro PS/HPLC Polishing Station with Dispensing Gun	115V, 60Hz, 7.5A	9000601	26301-856	Each	\$4,695.00	0
WaterPro PS/HPLC Polishing Station with Dispensing Gun	230V, 50Hz, 4A	9000603	26301-854	Each	\$4,805.00	0
WaterPro PS/HPLC/UF Hybrid Polishing Station	115V, 60Hz, 7.5A	9000704	30181-412	Each	\$6,620.00	0
WaterPro PS/HPLC/UF Hybrid Polishing Station	230V, 50Hz, 4A	9000705	30181-414	Each	\$6,710.00	0
Polishing Kit (Required)	—	9047201	30181-398	Each	\$425.00	0
Accessories and Replacement Items						
Hollow Fiber Final Filter	—	9092900	30181-422	Each	\$126.00	0
Support Stand	—	9077400	26301-703	Each	\$420.00	0



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VWR Signature™ General-Purpose Incubators

Supplier: VWR International

Find Similar Items in Product Category Incubators, General Purpose

Supplier: VWR International



- Exclusive Hybrid Heating System
- Microprocessor Control
- Easy Keypad Set and Calibration
- Over-Temperature Protection
- Access Port
- Heated Outer Door
- Interior Electrical Outlet
- Stainless Steel Interior and Shelves
- VWR Two-Year Limited Parts and Labor Warranty

Heating elements in all three walls, bottom, and door create a warm air jacket around the inner chamber to guarantee superior temperature uniformity with no hot spots. Warm air jacket design also provides quick temperature recovery—and there's a full-length inner glass door for viewing specimens without disturbing the chamber atmosphere. No need to worry about heater element damage from spills either—the inner chamber is tack-welded, and the low-watt density heating elements are safely isolated from the work chamber.

Microprocessor controlled for easy keypad set and calibration. Temperature display may be calibrated to match a secondary thermometer. For over-temperature protection, a second, independent safety controller can be preset and has visual alarm when activated. All units are stackable without the need for spacer racks. Features through-wall access port for chart recorder. A UL-approved, vapor-tight electrical outlet is inside the sealed chamber. Adjustable leveling feet compensate for uneven surfaces. Shelves adjustable in 1.3cm (1/2") increments.

All models are UL and C-UL listed. CE marked. 115V models are also CSA certified.

Temperature Range:	5° above ambient to 60°C
Uniformity:	±0.25° at 37°C

Ordering Information: VWR offers validation services including IQ, OQ, and PQ protocol development and execution (in US only); visit vwr.com or call 1-888-793-2300 for more details.

Model	Volume, L (cu. ft.)	Electrical	Interior Dimensions, W x D x H, cm (in.)	Exterior Dimensions, W x D x H, cm (in.)	No. of Shelves	Ship. Wt., kg (lbs.)	VWR Catalog#	Info	Unit	Your Price	Qty
1525	55 (2)	115V, 360W	38.1 x 38.1 x 38.1 (15 x 15 x 15)	53.3 x 53.3 x 63.5 (21 x 21 x 25)	2	87.5 (193)	35823-102	ⓘ	Each	\$2,197.69	0
1525	55 (2)	208/230V, 360W	38.1 (15 x 15 x 15)	53.3 x 53.3 x 63.5 (21 x 21 x 25)	2	87.5 (193)	35823-103	ⓘ	Each	\$2,462.35	0
1535	189 (6.7)	115V, 600W	61 x 61 x 50.8 (24 x 24 x 20)	76.2 x 76.2 x 81.3 (30 x 30 x 32)	2	112 (247)	35823-157	ⓘ	Each	\$2,869.78	0
1535	189 (6.7)	208/230V, 600W	61 x 61 x 50.8 (24 x 24 x 20)	76.2 x 76.2 x 81.3 (30 x 30 x 32)	2	112 (247)	35823-158	ⓘ	Each	\$3,185.26	0
1545	164 (5.8)	115V, 650W	50.8 x 50.8 x 66 (20 x 20 x 26)	63.5 x 68.6 x 91 (25 x 27 x 36)	3	111.6 (246)	35823-204	ⓘ	Each	\$2,759.08	0
1545	164 (5.8)	208/230V, 650W	50.8 x 50.8 x 66 (20 x 20 x 26)	63.5 x 68.6 x 91 (25 x 27 x 36)	3	111.6 (246)	35823-205	ⓘ	Each	\$3,065.99	0
1555, Side-by-Side	319 (11.3)	115V, 750W	91.4 x 50.8 x 68.6 (36 x 20 x 27)	106.7 x 68.6 x 94 (42 x 27 x 37)	6	147.4 (325)	35823-259	ⓘ	Each	\$4,766.65	0
1555, Side-by-Side	319 (11.3)	208/230V, 750W	91.4 x 50.8 x 68.6 (36 x 20 x 27)	106.7 x 68.6 x 94 (42 x 27 x 37)	6	147.4 (325)	35823-260	ⓘ	Each	\$5,297.21	0

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Classic Light Level, PL-S Series Portable Balances, METTLER TOLEDO*

Supplier: Mettler Toledo

Find Similar Items in Product Category
Balances, Pocket

Supplier: Mettler Toledo



Classic Light portable balances are ideal for easy weighing tasks. User programs include adjustment with external weight, piece counting, percent weighing, calculation with a custom free factor, selectable character size in display, dynamic weighing, ± weighing, and automatic shutoff. Units of measure include g, kg, mg, ct, lb., oz., ozt, GN, dwt, momme, mesghal, tael (three variants), tical, tola, and baht. The PL-S series balances feature a bright seven-segment LCD screen, built-in overload protection, AC adapter, and built-in below-the-balance weighing facility.

The optional RS-P26 printer delivers GxP-compliant printouts on lightfast paper. The ergonomic design facilitates operation and allows taring and zeroing of the balance directly from the printer. Its compact footprint allows the printer to find place even on smallest work benches.

METTLER TOLEDO provides ISO 9001 manufacturing, nationwide ISO 9001/17025 field service, and a one-year warranty. UL listed and CSA certified.

Ordering Information: The optional Gold and Silver Calibration service packages are offered to assure continual reliability and maintain optimum balance performance. Gold service packages are suitable for many regulated and unregulated balance uses requiring documentation to support installation, including a NIST traceable calibration certificate. Silver service packages are suitable for many unregulated balance uses, requiring no significant documentation to support installation. Contact your VWR representative for package specifics. VWR offers validation services including IQ, OQ, and PQ protocol development and execution (in US only); visit vwr.com or call 1-888-793-2300 for more details.

Readability, g	Weighing Capacity, g	Repeatability (Std. Dev.), mg	Linearity, mg	Pan Diameter, cm (in.)	Dimensions, W x D x H, cm (in.)	METTLER TOLEDO No.	VWR Catalog#	Unit	Your Price	Qty
0.001*	81	0.0008	0.002	10 (3 ¹⁵ / ₁₆)	19.4 x 22.5 x 13.7 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 5 ³ / ₈)	PL83-S	46620-738	Each	\$1,200.84	<input type="text" value="0"/>
0.001	210	0.0008	0.002	10 (3 ¹⁵ / ₁₆)	19.4 x 22.5 x 14.1 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 5 ⁹ / ₁₆)	PL203-S/00	89042-506	Each	\$1,543.00	<input type="text" value="0"/>
0.01	210	0.008	0.02	12 (4 ³ / ₄)	19.4 x 22.5 x 6.7 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 2 ⁵ / ₈)	PL202-S/00	11238-478	Each	\$729.00	<input type="text" value="0"/>
0.1	610	0.08	0.2	16 (6 ⁵ / ₁₆)	19.4 x 22.5 x 6.7 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 2 ⁵ / ₈)	PL601-S/00	11238-486	Each	\$700.00	<input type="text" value="0"/>
0.01	810	0.008	0.02	16 (6 ⁵ / ₁₆)	19.4 x 22.5 x 6.7 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 2 ⁵ / ₈)	PL802-S/00	89042-520	Each	\$1,220.01	<input type="text" value="0"/>
0.1	1510	0.08	0.2	16 (6 ⁵ / ₁₆)	19.4 x 22.5 x 6.7 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 2 ⁵ / ₈)	PL1501-S/00	11238-494	Each	\$810.00	<input type="text" value="0"/>
0.01	1510	0.01	0.03	16 (6 ⁵ / ₁₆)	19.4 x 22.5 x 6.7 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 2 ⁵ / ₈)	PL1502-S/00	89042-498	Each	\$1,433.98	<input type="text" value="0"/>
0.1	6100	0.08	0.2	16 (6 ⁵ / ₁₆)	19.4 x 22.5 x 6.7 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 2 ⁵ / ₈)	PL6001-S	46620-750	Each	\$1,200.84	<input type="text" value="0"/>
1.0	6100	0.8	2.0	16 (6 ⁵ / ₁₆)	19.4 x 22.5 x 6.7 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 2 ⁵ / ₈)	PL6000-S/00	11238-502	Each	\$810.00	<input type="text" value="0"/>
0.1	8100	0.08	0.2	16 (6 ⁵ / ₁₆)	19.4 x 22.5 x 6.7 (7 ⁵ / ₈ x 8 ⁷ / ₈ x 2 ⁵ / ₈)	PL8001-S/00	89042-512	Each	\$1,321.01	<input type="text" value="0"/>

Supplied with RS232 and Auxiliary Display Interface



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Home :: Appliances :: Refrigerators :: Top Mount Refrigerators :: 19 to 21.9



GE® 21.0 Cu. Ft. Top-Freezer Refrigerator (Color: White)

Item #: 196607 Model: GTS21KCXWW

\$798.00

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GE has a policy of continuous product improvement & reserves the right to change materials/specifications without notice

Description

Adjustable, Spill Resistant Glass Shelves - Make it easy to customize storage to handle foods and containers of different sizes

Gallon Door Storage - Makes room for milk and any other gallon size containers

Factory-Installed Icemaker - Makes ice; automatically ensuring a ready supply

Adjustable Humidity Vegetable/Fruit Crispers - Provide ideal storage environment for fruits and vegetables

Snack Pan - Helps keep everyday foods like muffins and carrot sticks fresh

Upfront Temperature Controls - Features easy-to-reach, easy-to-read temperature controls

Freezer Step Shelf - Creates an extra space for stacking frozen foods and can be easily removed for tall items

Limited One-Year Parts & Labor Entire Appliance; See written warranty for full details

Extended Protection Plans are available for an additional charge

Customer Ratings

Color:	White
Capacity (Cu. Ft.):	21.0
Flush / Built-In Look:	No
Ice Maker:	Yes
Water Dispenser:	No
Water Filtration:	No
Defrost Type:	Frost-Free
Dual Cooling:	No
Fresh Food Shelves:	4
Door Shelves:	3
Freezer Shelves:	1
Freezer Baskets/Bins:	2
Reversible Door:	Yes
Custom Door Kit Compatible:	No
Depth, Including Handles (Inches):	32-1/4
Depth, Excluding Handles (Inches):	30-3/8
Depth, Less Door (Inches):	27
Height to Top of Case (Inches):	66
Height to Top of Door Hinge (Inches):	66-3/4
Width (Inches):	32-3/4
Energy Star Compliant:	No
Manufacturer's Warranty (Parts):	Limited 1 Year
Manufacturer's Warranty (Labor):	Limited 1 Year

- [View the product Energy Guide \(pdf\)](#)
- [View the product Measurement Guide \(pdf\)](#)

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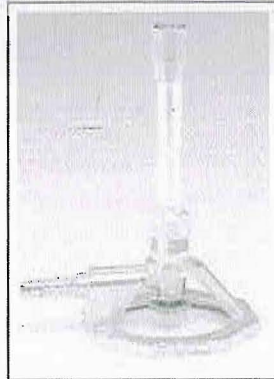
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Straight-Tube Bunsen Burner

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Straight-Tube Bunsen Burner

Noiseless burners allow separate control of both flame temperature and flame height.

[See details](#)

03-975-13B

Items Details Images

Description	Catalog Number	Quantity	Price
Burner For Artificial Gas	S49106 Humboldt No.:H-6210/EMD	<input type="text"/>	Each for \$27.77
		Add to Hotlist	Add to Cart
For Natural Gas	S49107 Humboldt No.:H-6220/EMD	<input type="text"/>	Each for \$19.08
		Add to Hotlist	Add to Cart
Burner For Lpg	S49108 Humboldt No.:H-6225	<input type="text"/>	Each for \$20.39
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Corning* Hotplates, Hotplate/Stirrers, and Stirrers



Corning* Hotplates, Hotplate/Stirrers, and Stirrers

Rugged units are designed for convenience, safe operation, and chemical resistance.

[See details](#)

Includes:

- Comprehensive instruction manual

S50446HP

Items

Details

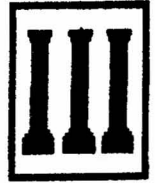
Images

Description	Catalog Number	Quantity	Price
Hotplate; 4 x 5 in. View Accessories	S50442HP Corning No.:6795-200 EMD	<input type="text"/>	Each for \$213.44
		Add to Hotlist	Add to Cart
Stirrer; 4 x 5 in. View Accessories	S50442ST Corning No.:6795-210 EMD	<input type="text"/>	Each for \$258.03
		Add to Hotlist	Add to Cart
Hotplate; 5 x 7 in.	S50445HP Corning No.:6795-400 EMW	<input type="text"/>	Each for \$205.11
		Add to Hotlist	Add to Cart
Stirrer; 5 x 7 in.	S50445ST Corning No.:6795-410 EMD	<input type="text"/>	Each for \$243.86
		Add to Hotlist	Add to Cart
Stirrer/Hotplate; 4 x 5 in. View Accessories	S50446HP Corning No.:6795-220 EMD	<input type="text"/>	Each for \$403.00
		Add to Hotlist	Add to Cart
Stirrer/Hotplate; 5 x 7 in.	S50448HP Corning No.:6795-420 EMW	<input type="text"/>	Each for \$352.80
		Add to Hotlist	Add to Cart



COLLEGE OF SCIENCE & TECHNOLOGY

OFFICE OF THE DEAN



April 20, 2009

To: Student Technology Office

From: Dr. Austin Temple, Ph.D.
Dean, College of Science and Technology

This letter is in support of the Student Technology Fee Surplus Funding application submitted by Dr. Zafer on behalf of the Department of Biological Sciences.

The Department of Biological Sciences has recently extended its microbiology, and human anatomy and physiology course offerings to the CenLA campus to serve the large nursing student population in the Alexandria area. Currently, these students have to commute the Natchitoches campus to enroll in the lab courses. A well-equipped laboratory space is essential for delivery of these courses and this application seeks funds to furnish the lab with the most essential microbiology lab equipment.

I recommend approval of this application and thank you for your consideration.