

Minnesota State University, Mankato

FY07 Institutional Equipment and Furnishings Prioritized List

Revised 5/18/06, Approved 5/31/06

#	Departmental Unit	Equipment Description	Rationale	Matching Funds	Quantity	Unit Price	Total Request	FY07 Funded Equipment
A	B	C	D	E	F	G	H	I

Institutional Equipment Funded in FY07

1	Education - Counseling & Student Personnel	Provide furnishings for Armstrong 003, the department's main classroom (6 student tables, 20 student chairs, 2 instructor tables and 1 instructor chair), counseling rooms (6 desks, 6 tables, 12 chairs, 6 desk lamps) and reception area (2 desks).	The counseling lab in Armstrong Hall 003 is the primary clinical facility for the Department of Counseling and Student Personnel (CSP). The lab consists of 6 individual counseling rooms adjoining a reception area and main classroom and is central to the department's counselor education and supervision efforts. By the end of the fiscal year, the instructional technology and video recording technology will be upgraded so that they are state of the art in counselor training and preparation. However, the furnishings in the reception area, the main classroom, and the individual counseling rooms are in need of significant upgrades. The furnishings in the counseling rooms consist primarily of salvaged items which are both unattractive and uncomfortable. The furnishings in the main classroom are outdated and have been salvaged from MSU surplus. The department's long-term plans call for integrating doctoral education with the provision of low-cost counseling services to the MSU and Mankato communities.	\$0	1	\$18,144	\$18,144	\$18,144
2	Social & Behavioral Science - History	Equipment for new History Documentary class - Equipment includes shared SAN-server space, camcorders, final cut licenses, audio and digital mixers, monitors, headsets, cords, etc. New computers are not necessary - collaborating with Geography for use of Mac computer lab.	The Documentary Class Project is being worked on by members of the History and Anthropology Departments with the support of the Geography Department. The goal is to prepare our students to create their own documentary films using the current standards and equipment used by professionals. Polly Fry, PhD in American Studies, who currently works with the Bell Museum and recently completed the PBS series Minnesota: A History of the Land, is a working professional in this area and is prepared to teach the course. This equipment request coupled with the use of the Cartography lab in Geography provides the necessary equipment for the course. This request will outfit six mini DVD camcorders to record six group produced documentary projects, 12 working stations and the storage space to edit the projects and one cart of equipment which will be shared to produce the final projects.	\$3,000	1	\$20,796	\$17,796	\$17,796
3	Allied Health & Nursing - Nursing	Maternal Child Simulation & Cardio-Pulmonary Simulation & Gaming with Accessories	Simulated education is necessary to supplement student learning since clinical resources are diminishing. The simulation and gaming equipment will be used to enhance UG and Grad education. The ability to practice EKG strip readings, heart and lung sounds and IV skills necessary to deliver emergency medication will allow students to demonstrate competency in this area. Teaches complex and abnormal heart, lung, bowel sounds. This simulated education is necessary to supplement actual clinical experience	\$0	1	\$60,440	\$60,440	\$60,440
4	Library Services	Computer and Workstation furniture and partitions to expand the Library Information Commons area on the first floor and enclose the Casual Learning Lab. During the last academic year we installed the first phase of the Library Commons and we need to start Phase 2.	There is an urgent need for expansion of the Library Commons on the first floor. There are currently more than 60 computers in that area but student demand highly exceeds available space and available workstations for their use individually and as small groups. The Casual Learning Lab will improve its availability as a classroom and as a lab with some additional enclosure that will offer sound proofing to the area and will make it easier for students and faculty to focus on their learning task at hand. The classroom is used by faculty from several Colleges.	\$30,000	1	\$60,000	\$30,000	\$30,000

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5	Campus-Wide	Equipment and card access installations	Continue using project request priority	\$0	0	\$87,000	\$87,000	\$87,000
6	Social & Behavioral Science - Geography	GPSMAP 76CSx: Hand-held GPS units for use in teaching Package Includes: GPSMAP® 76CSx unit; 128 MB microSD; USB interface cable; MapSource Trip & Waypoint Manager CD; Lanyard; Manual.	Replaces outdated and defective units, now have only 1 unit per 4 students, this will make 1 per 2 students	\$300	9	\$589	\$5,003	\$5,003
7	ITS	TRC 121 Multimedia Equipment Upgrade	Largest auditorium classroom constantly used by science departments. Also with oldest multimedia equip on campus. (Matching funds with Tech Fees)	\$10,000	1	\$40,000	\$30,000	\$30,000
8	Science, Engineering & Technology - Chemistry	HPLC/Mass Spec System with Autosampler	HPLC/MS essential for organic, biochem, molecular biology. Opportunity exists for \$50K grant with USDA, matched by \$75K Simadzu equip grant. If USDA match does not exist, the fall-back would be the HPLC with Autosampler.	\$125,000	1	\$177,000	\$52,000	\$52,000
9	Education	Provide new classroom furnishings for Armstrong 322 to include tables(12), chairs (24) and stools (2).	Enhance AH322 by modernizing classroom through replacing furnishings with row tables (\$7,392 for 12 trapezoid/rectangular tables with power; \$6,074 for 24 Steelcase chairs; \$667 for 2 Steelcase stools)	\$0	1 - See Descript.	\$14,133	\$14,133	\$14,133
10	Service-Learning	3 Door Commercial Cooler and Freezer	Campus Kitchens is a service-learning laboratory project that provides opportunities for students from several classes to learn more about domestic poverty. Food is recovered from the residence halls and over 200 meals are delivered each week to area Mankato residents who have been identified as "in need". We are currently using the walk-in cooler and freezer in the Gage butcher shop. This equipment does not adequately hold temperature when it is warm outside. Our grant and our program is at risk. A new cooler and freezer would enable us to continue our service-learning programs and our service to the community.	\$500	2 (1 cooler & 1 freezer)	\$3,500	\$6,500	\$6,500
11	Science, Engineering & Technology - Electrical & Computer Engineering & Technology	Clean Room Film Measurement System for Semiconductor Fabrication	Replacement purchase for equipment purchased in the early 80's and is not longer usable or supported by the manufacturer. The function of the instrument is to support interface measurements in semiconductor fabrication.	\$10,000	1	\$35,000	\$25,000	\$25,000
12	Campus-Wide	Tables/Chairs/Staging	The University currently owns no tables/chairs/staging to support all the events that occur throughout campus. In the past, the University has had to borrow these from the CSU which is inappropriate as this equipment is funded with student fees and it is only supposed to be used to support student functions. Also, the tables/chairs/staging is located in the CSU and typically the University events are held in Taylor/Myers or other academic buildings. This results in events personnel having to move these items from the CSU to the event and then back to the CSU. The plan is to place the new purchases in the Taylor Center to minimize the moving, eliminate the inappropriate use of student tables/chairs/staging and make it easier on events employees who have to continually move these items back and forth.	\$12,000	10 tables at \$177; 100 chairs at \$150; and \$27,300 of staging	See Qty	\$18,500	\$18,500
13	Intercollegiate Athletics	Crowd Control Stations/Turnstyle Gates	Event management control tools	\$0	1	\$6,000	\$6,000	\$6,000
14	ITS	Core Fiber Expansion Chassis Replacement Servers (7)	Needed capacity for new wireless technology and 10 Gbps backbone (Matching funds with Tech Fees) For 5 year-old Servers (Some matched with Tech fees)	\$70,000	1 1	\$87,000 \$49,000	\$66,000	\$41,000
15	Facilities	2 Primex Transmitters, 75 clocks/5 big clocks	During the past 2 years, we've converted over 80% of the campus to a system that controls the campus clocks automatically so that we will not experience any problems during the daylight savings time switchover. Institutional funding has supported past purchases and this last request would complete the switchover of the campus.	n/a	80	See Descript.	\$14,322	\$14,322
16	Facilities	Sound System	The current sound system in the Taylor Center is unacceptable for non-athletic events. For example, this past year we held the President's inauguration, various graduations, and had a ceremony for our students who were killed in a traffic accident. In all these instances, the current sound system is clearly incapable of providing the quality of sound needed for more formal ceremonies. This facility will continue to hold graduations and is the only one that can seat several thousand so it's important that these improvements get accomplished or we'll continue to operate with a sound system that is difficult to hear and understand.	n/a	1	\$7,000	\$7,000	\$7,000

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17	Annual Giving	Work Stations	Due to new VoIP phone system, need new configuration in Coordinator's office for three computer work stations for electronic supervision & monitoring of student callers. Will enable greater results in dollars raised for all University divisions/departments	None	3 @ \$2,000	\$6,000	\$6,000	\$6,000
18	Campus Recreation	Exercise Testing Treadmill w/ computer	Replaces old testing treadmill-out of date	\$5,000	1	\$20,000	\$20,000	\$15,000
19	Social & Behavioral Science - Geography	GIS Lab Equipment; upgrade GIS lab with increased memory (6 Dell 146 GB Hard Drives - \$3235) and new Xerox Phaser 6350DX Color Laser Printer (\$3,200 printer, \$860 maintenance agreement, \$2,200 replacement parts for 2 years - imaging units, fusers, transfer rollers etc.)	Increase memory in GIS Internet Map Server (must be purchased in groups of 3 for "RAID" mirrored configuration, will allow GIS data to be served to the public and students via the internet)	\$2,000	1	\$9,495	\$7,495	\$7,495
20	Social & Behavioral Science - Geography	TeleAtlas Street Data for 7 county metro area:D TeleAtlas Street Data for 7 county metro area:GIS data for teaching & research (useful for Geography & URSI). Tele Atlas MultiNetTM data, is a fully attributed and multi-layered vector dataset containing detailed street networks, water features, parks and landmarks, county, city and civil divisions, ZIP codes, urbanized area codes and census tracts. Tele Atlas data contains detailed routing attributes such as street directions.	GIS data for teaching & research (useful for Geography & URSI)	\$2,000	7	Total \$14,025	\$12,025	\$12,025
21	ITS	Reporting Services Server	Used heavily by Tracy Pellet for assessment, will provide administrators with ability to track and graph data	\$0	1	\$10,000	\$10,000	\$10,000
22	Library Services	20 wired tables for laptop use at Memorial Library and in the Music Library	We have already replaced many of the Library's old tables with this type of table that provides power connection for student laptops. They are highly popular and we can use as many as we can get. Student demand highly exceeds available table space.	\$10,000	20	\$1,250	\$15,000	\$15,000
23	Science, Engineering & Technology - Automotive & Manufacturing Engineering Technology	Brown and Sharp Micro Hite DCC	Replacement of current equipment that is obsolete. It will develop and verify precision measurements and will integrate with Adv. CAD and rapid prototype production.	\$30,000	1	\$60,000	\$30,000	\$30,000
24	Science, Engineering & Technology - Computer & Information Sciences / Physics	Shared Linux Computer	Physics and CIS both requesting same high performance 64 bit Linux computer with parallel compiler; can be used in ME, Civil E., Comp. Sc. Ast, and physics.	\$22,000	1	\$50,000	\$28,000	\$28,000

Total Approved Funding **\$556,358**

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Institutional Equipment NOT Funded (in priority order if future funding becomes available)

14 (Cont'd)	ITS	Core Fiber Expansion Chassis	Needed capacity for new wireless technology and 10 Gbps	\$70,000	1	\$87,000	\$25,000 Additional	N/A
18 (Cont'd)	Campus Recreation	Exercise Testing Treadmill w/ computer	Replaces old testing treadmill-out of date	\$5,000	1	\$20,000	\$5,000 Additional	N/A
25	Allied Health & Nursing - Human Performance	Hydrotrack Underwater Treadmill & Aquatic Therapy	Athletic Training Education: Current education competencies and clinical proficiencies required for program accreditation specifically indicate aquatic therapy for upper and lower body injury. We are currently deficient in this area due to pool scheduling and availability of a lifeguard (required anytime pool is in use). The Hydrotrack will allow us to teach the competencies and allow the students to practice aquatic therapy as a requirement for HP444, Rehabilitation Techniques, and any clinicals they may have with the MSU athletic training staff. Athletic Training Services: Staff provides health care to over 600 student athletes. A significant number of injured student-athletes would benefit from aquatic therapy during their recovery process. This is especially useful with lower extremity injury rehabilitation since water buoyancy allows a faster progression. The hydrostatic pressure and convection produce a therapeutic effect in reducing inflammation and increasing joint mobility.	\$0	1	\$57,850	\$57,850	N/A
26	Social & Behavioral Science - Geography	Replace chairs, furnishings and tables in department office and seminar room. Seminar room furniture includes large conference type table and chairs; department furnishings include comfortable seating, tables, chairs.	Provide a better learning and working environment (all existing furnishings in the department are at least 15 years old and most were second-hand to begin, all are now very well worn to wearing out)	\$0	1	\$5,331	\$5,331	N/A
27	Education - Counseling & Student Personnel	Provide furnishings for Counseling & Student Personnel's main office (1 cabinet with work surface, 1 storage unit, 5 chairs, 2 tables, 2 task chairs)	Armstrong Hall 107 is the main office for the Department of Counseling and Student Personnel (CSP). It consists of a reception and waiting area and is the department's primary workspace and storage area. The main office accommodates two Administrative Assistants, several student employees and encompasses office space for 7 full-time faculty and 4-6 graduate assistants. Furnishing upgrades are requested to improve the functionality and appearance of the office. The wall of windows facing the hallway, on the first floor of Armstrong Hall, makes AH107 highly visible. As the gateway to CSP faculty offices, the main office creates a strong first impression. Workspace is needed for collating class handouts, preparing outgoing mailings, sorting incoming mail and completing other office tasks. The department's aspiration of implementing a doctoral program heightens the need for an attractive and professional office.	0	1	\$8,197	\$8,197	N/A
28	Social & Behavioral Science - Geography	Ground-Penetrating DC Resistivity Mapper:	The DC (direct current) resistivity "ohm-mapper" by Geometrics can readily be used to locate buried archeological artifacts (Anthropology/Archeology), monitor sub-surface sediment and water/pollutant movement (Geology and Wetland Ecology) such as broken farm tile drains and natural piping in loose sediment, find bodies of clay or rock in agricultural fields (geology and ecology), locate bodies of ice (Geography/Geomorphology) to determine climate change in cold environments, or figure the amount of sand vs. clay in sediment trapped behind silted-in dams thus allowing calculation of water volume in flood hazard work (ideal for work at Rapidan Dam). Shared equipment for teaching & research through the Earth Science program (will directly benefit Anthropology/Archeology and Geography/Geomorphology. It could also be used by Geology/Hydrology, Wetland Ecology/Biology, Physics & Civil Engineering). Letters of support from these departments are on file and available for review.	\$3,000	1	\$26,742	\$23,742	N/A
29	Science, Engineering & Technology - Mechanical & Civil Engineering	Flow Pipe Network	Fluid dynamics teaching and research instrument. Flow Pipe network analysis that simulates fluid flow performance of pumps, fans, control valves, orifices and other line equipment for water, hydrocarbons, air, steam, natural and other gases. Includes Heat transfer - heat loss/gain through pipe walls. Page 4	\$12,000	1	\$34,200	\$22,200	N/A
30	Social & Behavioral Science - Geography	Standard ITS Classroom Equipment Installation in Cartography Lab (through Matt Clay)	To make computer laboratory have same instructional capabilities as the standard classroom	\$1,000	1	\$14,000	\$13,000	N/A

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31	Science, Engineering & Technology - Electrical & Computer Engineering & Technology	Automation Sensory Equipment	For instruction in automation sensory technologies, an important EE and MET instructional technology for laboratory instruction in preparation for industry student career opportunities. Fits MNCEME goals and anticipated match and company match for Center.	\$51,600	1	\$71,200	\$19,600	N/A
32	Intercollegiate Athletics	Electrical Stimulation/Ultrasound Combination Unit	Athletic Training need for athlete re-hab		1	\$10,000	\$10,000	N/A
33	Graduate Studies & Research - Research & Sponsored Programs	Furnishing for new office suite that includes director's office (\$4,000); staff office ((\$2,500), workroom (\$3,000), reception area / front work stations (\$10,000) and resource/storage area (\$3,000).	The College has a single set of requests related to the Research and Sponsored Programs Office permanent relocation to the Wigley Administration Building. The costs are estimates based on a similar move in the past year by the McNair Scholars Office.	\$0	See Decsript.	\$22,500	\$22,500	N/A
34	Science, Engineering & Technology - Biology	Rat Implant Sensor BP Monitor	Implanted sensors for taking blood pressure in rats; now required in order to obtain publications in hypertension studies, an area of considerable student faculty research.	\$12,000	1	\$52,000	\$40,000	N/A
35	Arts & Humanities - Music	Refurbishing of Lighting in Recital Hall	Classroom serving 3000 students and 10,000 audience members annually. Current lighting works inconsistently, if at all, and is not consistent with lighting technology in the marketplace. Dim lighting is inadequate for use in a classroom.	\$0	1	\$120,000	\$120,000	N/A
36	Science, Engineering & Technology - College Classroom	Finish Chair Installation in Trafton C311	Last lecture room in Trafton to have chair replacement. After 35 years of use, chair bases and swivels are breaking.	\$0	1	\$20,000	\$20,000	N/A
37	Intercollegiate Athletics	Additional Office Furniture - HC Training Offices	accommodate increased staff/graduate students		1	\$5,000	\$5,000	N/A
38	Science, Engineering & Technology - Electrical & Computer Engineering & Technology	Agilent Tech Signal Oscilloscope	Mixed signal oscilloscope replacement used to capture and measure both analog and digital for support of communications work and other electrical waves and their anomalies. Possible MNCEME match.	\$0	1	\$24,000	\$24,000	N/A
39	Science, Engineering & Technology - Mechanical & Civil Engineering	Steam Gage	Hydrological equipment for teaching/research that assist water resource management. The gages measure the quantity and variability of our surface water resources and analyze streamflow data in combination with groundwater data to understand hydrologic cycle relationships, esp. as indispensable tools for flood forecasting.	\$0	1	\$12,000	\$12,000	N/A
40	Campus Recreation	John Deere Gator or Kawasaki Mule	Field use during intramural sport events	With Campus Rec	1	\$5,000	\$5,000	N/A
41	Science, Engineering & Technology - Automotive & Manufacturing Engineering Technology	New Generation 3D Printer	Rapid production of CAD drawings into solid form, durable models. Important for product development. Match with MNCEME dollars.	\$25,000	1	\$45,000	\$20,000	N/A
42	Science, Engineering & Technology - Physics	Baker Schmidt Telescope	Widefield optical system with excellent imaging for use in astronomy classes and for student faculty research.	\$0	1	\$10,000	\$10,000	N/A
43	Science, Engineering & Technology - Chemistry	Microplate Reader	Colorimeter reader for rapid quantitatively measure presence of specific molecules (DNA, protein, ATP) and assaying rates of change.	\$0	1	\$14,500	\$14,500	N/A
44	Intercollegiate Athletics	Gator Utility vehicle - Athletic Training	equipped for injured athlete transport		1	\$6,500	\$6,500	N/A

Items removed from list - Do not meet criteria for consideration

1	Institutional Diversity - Institutional Diversity, Office of Multicultural Affairs and Intercultural Student Center	8 Dell Optiplex GX 620 Computers and 3 HP LaserJet 4350DTN Printer (Q5409A)	Technological upgrades. The computers cost \$1,100 each and the printers cost \$2,020 each.	\$0	11	See Rationale \$14,860	\$14,860	N/A
2	Intercollegiate Athletics	Two-Way Radios	Event management control tools	\$0	1	\$3,000	\$3,000	N/A
3	Institutional Diversity - Institutional Diversity and Office of Multicultural Affairs	HPScanjet 4370 Photo Scanner (L1970A)		\$0	3	\$100	\$300	N/A
4	Institutional Diversity - Institutional Diversity and Office of Multicultural Affairs	Avery Label Printer		\$0	3	\$135	\$405	N/A
5	Institutional Diversity - Intercultural Student Center	Television - Wall Mounted		\$0	1	\$500	\$500	N/A
6	Institutional Diversity - Institutional Diversity, Office of Multicultural Affairs and Intercultural Student Center	Rotary Paper Cutter	Page 5	\$0	3	Total \$250	\$250	N/A

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7	Institutional Diversity - Institutional Diversity, Office of Multicultural Affairs and Intercultural Student Center	HP LaserJet 4350DTN Printer (Q5409A)	Upgrades	\$0	3	\$2,020	\$6,060	N/A
8	Intercollegiate Athletics	Large Hydrocolator Unit	Athletic Training need for athlete re-hab/safety	\$0	1	\$4,000	\$4,000	N/A
9	Intercollegiate Athletics	Game-Ready Compression Unit	Athletic Training need for athlete re-hab/safety	\$0	1	\$2,500	\$2,500	N/A

Part of the request from Security for Card Access

1	Intercollegiate Athletics	Keypad Entry System - Taylor Center and ASA	security precautions		1	\$12,000	\$12,000	N/A
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Items Removed from List - Funded in FY06 with Supplemental Funding

1	Arts & Humanities - Theatre & Dance	Renovation of the Ted Paul Theatre Sound System	During the past three years, we have renovated the seating, stage floor, fly system and lighting equipment from the Ted Paul Theatre's original 1967 appointments. The sound system has been patched and repaired over the decades and now is in almost total disarray. This proposal will gut the old, out-moded system and replace it with state-of-the-art equipment. We are in such need, we propose to pick up half of the costs through earned revenue.	\$100,000	1	\$200,000	\$100,000	N/A
2	KMSU Radio	Radio Systems Millennium RS-12a Console, 12 Channel; RS-12a Copy Stand & DA Card, incl. installation	Replace undependable, badly outdated console that is the technological heart of KMSU's operation. New console will help station better-support MSU's strategic initiatives and President Davenport's brand strategy through higher-quality programming	None	1	\$10,841	\$10,841	N/A
3	Intercollegiate Athletics	Blocking Sleds	Program need - Replace dilapidated equipment	\$0	1	\$8,000	\$8,000	N/A

Will be Funded Institutionally

1	Campus Wide	Card Access Annual Software and Licenses						
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