

Minnesota State University, Mankato

FY06 Institutional Equipment and Furnishings

Updated 3/11/05

A	B	C	D	E	F	G	H	I
Line #	Division Priority #	Departmental Unit	Equipment Description	Rationale	Matching Funds	Quantity	Unit Price	Total Request
1	1	Security, IT Services, Facilities	Continuation of MSU card access.	Continuation of installation of the card access system -various departments across campus.			\$367,247	\$367,247
2	1	Memorial Library	Computer and Workstation furniture and partitions for a new Information Commons area on the first floor of the Library (similar design to Casual Computing lab in the ERC)		\$30,000	60 stations	\$60,000	\$30,000
3	2	SET	Flow Solution Auto analyzer-Replacement item-Measures chemical components of environmental and foodstuffs samples (Biology/Water Resource Center)			1	\$54,000	\$54,000
4	3	Social & Behavioral Sciences	Description: Weather recording station with roof-top instrument measuring sensors for the Department of Geography.. Station to include temperature, humidity (dew point temperature), wind speed and direction, solar radiation and precipitation sensors. The infrastructure in the way of wiring is secure and intact, and the request is for an upgrade of the sensor systems.	Rationale: We have qualified as an official weather recording station by the National Weather Service for the past several years. The instrumentation we are using was installed in 1989, with a replacement of a temperature and humidity sensor in 1994. The climate elements have taken their toll on these instruments over the years and we are no longer able to maintain calibration with these 11 year old outdated sensors	\$4,300	1	\$19,860	\$15,560
5	4	Arts & Humanities	Expand display options and enhance the Conkling Gallery by the purchase and installation of a new lighting system, an electronic display system with sound for electronic art work and gallery display pedestals			1	\$31,334	\$31,334
6	5	Allied Health & Nursing	Schick Digital radiography patient sensors with remotes and cables for Department of Dental Hygiene. The goal is to operationalize the radiology equipment using digital technology.		\$15,287 available from SCTC with another \$15,287 possible	4	\$15,784	\$30,573
7	6	Business	Expand utility and appearance of Morris Hall Room 215 for seminar classes and meetings by installing a smartboard, ceiling projector, DVD, sound system, new chairs, "electric capable" tables and carpeting		\$13,000	1 room	\$26,000	\$13,000
8	7	SET	Ion Chromatography System for analysis of anions and cations, with autosampler (Chemistry)			1	\$45,000	\$45,000

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Line #	Division Priority #	Departmental Unit	Equipment Description	Rationale	Matching Funds	Quantity	Unit Price	Total Request
9	8	Social & Behavioral Sciences	Description: Equipment to allow the Department of Geography to build a database for Blue Earth County and southern Nicollet county in Geographical Information Systems (GIS), Global Positioning Systems (GPS) and Remote Sensing (analysis of high-resolution images) used for land cover mapping and spatial analysis. Equipment includes Power Valut 220S; GIS mapping and data server, remote sensing TM images, remote sensing ETM image, remote sensing quickbird image, remote sensing IKONOS image, Aerial photograph, GPS NAVTEQ map, GPS SD memory card, and GPS vehicle active device.	Rationale: The data will have an indefinite shelf life and will be used by recent hires Kim and Yuan in the introductory and advanced GIS and GPS courses. These faculty members were hired to reinforce geo-spatial technology and to move forward our certificate program in geo-spatial technologies. This program will reinforce the major and be attractive to non-traditional students. These data will be stored on a large 2 Terabyte data server recommended by MSU's ITS division. Data will be available to other departments and to agencies in Blue Earth and Nicollet Counties..	\$3,000	1	\$27,334	\$24,334
10	1	IT Services	Computer / Network infrastructure improvements	Anti-spam solution to address increasing threats from phishing for account numbers and obscene advertising via e-mail, high capacity fiber cabling to support 10Mbps to buildings that need higher network capacity, fiber connection to Andreas Observatory replacing unreliable wireless connection and allowing video surveillance and card access, replacement of 5-year-old computer center equipment that will no longer be supported for both student and administrative purposes, phones for classrooms and labs for emergency notification or help (first 200 rooms), cable testing equipment, security video surveillance server.	\$130,000	1	\$242,400	\$130,000
11	1	Facilities Management/ Postal Services	Postage Meter Machines	Current Mailing Machine Model Hassler AS335 with USPS Meter #1 cranked out 439,708 pieces from October 2003 until September 2004. Mailing Machine Model Hassler AS335 with USPS Meter #2 cranked out 398,816 pieces of mail. Postage charges vary depending on the nature of what is being barcodes, etc. We have but a small window to process afternoon mail: we receive at 2:30 PM and it has to be done by 3:45 PM – no way can one machine do the trick. Both machines were purchased on or about 1994. That is a long life in the high tech world we live in		2	\$15,298	\$30,596

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12	1	Career Development	furniture for 4 on-campus interview rooms	The CDC has contributed approximately \$20,000 toward the purchasing of furnishings for the new renovated facility in WA209. Unfortunately, because of cost, this does not include furnishings for the 4 employer interview rooms included in the CDC Recruitment Suite. These suites will continue to use the CDC "old" furniture until monies are raised to replace this furniture. *CDC staff are working with the Advancement Office to solicit donations from on-campus recruiting employers to cover a portion of the furniture expense. It is hoped that this efforts will subsidize \$2,500 of entire cost.	*\$2,500	furniture for 4 rooms	\$2,500	\$7,500
13	2	Campus Recreation	weight room matting	for new recreation center		1	\$41,000	\$41,000
14	9	Allied Health & Nursing	9 Desktop computers, for The Department of Family and Consumer Science's Test Kitchen, with Pentium III, SVGA Display(800x600), and Windows Media Player for 8 or greater. Additionally, software and licensing package for the 9 computer stations (\$18,157). We are nearing completion of raising funds to match a \$150,000 grant from Glen Taylor. He has recently given the first \$50,000 to facilitate completion of the lab as quickly as possible. We expect the lab to be completed for classes by fall and these pieces of equipment are necessary to have the sensory lab/test kitchen fully functional.		\$50,000 Taylor match	9 computers and 1 software / licensing package	\$13,500 for computers (\$1,500 each) and \$18,157 for software / licensing package	\$31,657

Budget

Prioritized list of Institutional Equipment & Furnishings - Funding not available								
15	10	Business	Create two Distance Learning classrooms through the purchase and installation of cameras, sound systems and monitors		\$10,000	2 setups	\$20,000	\$10,000
16	11	Memorial Library	Computer and Workstation furniture and partitions for a new 45-seat classroom/lab area on the 2nd floor of the Library (similar to the Global Learning lab in the ERC)		20,000	40 stations	\$40,000	\$20,000
17	2	IT Services	New Multimedia teaching equipment for 17 new classrooms that currently do not have any technology in them.	1-time money for classroom presentation systems. Replacement cycle will be provided by student technology fees.		1	\$284,000	\$284,000
18	12	SET	Nanospec 3000PHX. Replacement for nanotech clean room, existing model can no longer be repaired (Electrical & Computer Engineering and Technology)			1	\$33,740	\$33,740
19	13	Social & Behavioral Sciences	Description: ITS/OIT to install standard instructional equipment package (DVD/VCR player, document camera, projector, etc) in this Urban & Regional Studies Institute classroom used for instruction 25-30 hours per week. Cost estimate obtained from ITS/OIT.			1	\$18,000	\$18,000

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Line #	Division Priority #	Departmental Unit	Equipment Description	Rationale	Matching Funds	Quantity	Unit Price	Total Request
20	1	Intercollegiate Athletics	Water Boy Portable Drinking Station System	safety precaution, fields lack adequate hydration for student-athletes		1	\$9,500	\$9,500
21	14	SET	Hydraulics Armfield Series/Parallel Pump Demo Unit FM 21. Replacement unit used to drive hydraulics experiments (Mechanical Engineering))			1	\$19,350	\$19,350
22	15	Allied Health & Nursing	Description: 5 Precor 546 Elliptical Cross trainers (\$4,000 each) and 4 Woodway Desmo S Treadmills (\$10,000 each) - Fitness Activities classes, Cardiac Rehabilitation, and other Activity courses utilize the cardiovascular exercise equipment.	Rationale: All of the equipment that is currently used in these courses have been purchased by Campus Recreation. Since the Department of Human Performance utilizes this equipment for class purposes 4 hours per day we feel that the department should contribute this equipment to the new Campus Fitness Facility in Otto Arena		9	5 @ \$4,000 and 4 @ \$10,000	\$60,000
23	2	KMSU Radio	Radio Systems RS-12a console, copy stand & DA Card	Replace old/outdated console		1	\$5,325	\$5,325
24	16	Social & Behavioral Sciences	Description: ITS/OIT to install standard instructional equipment package (DVD/VCR player, document camera, projector, etc) in this Anthropology classroom used for instruction 25-30 hours per week. Cost estimate obtained from ITS/OIT.			1	\$18,000	\$18,000
25	2	Facilities Management/ Building Services, Physical Plant, & Grounds departments	Used Boom Truck	Required to trim trees, replace light bulbs, wash the outside windows of buildings; replaces lights on outdoor scoreboards; replaces worn-out/missing MSU banners, etc. Demands exceed ability of old used "Genie" lift.		1	\$40,000	\$40,000
26	17	SET	Nikon ME600L Microscope with camera (Physics)			1	\$19,000	\$19,000
27	18	Allied Health & Nursing	Installation of multi-media equipment, including power point, in two Family Consumer Science labs (Wiecking B137, B139) for presentations in conjunction with experiments.			2 rooms	\$30,000	\$30,000
28	3	Career Development	large panel LCD/Plasma display system	for the new career area to project career, job search workshop information, promote events, announce on-campus recruiters, etc. Would be visible to all students entering the CDC and in the CDC waiting area. In addition, would be visible to	N/A	1	\$5,000	\$5,000
29	19	Arts & Humanities	Renovation of the Ted Paul Theatre Sound System. Cost estimate obtained by Chair of the Department of Theatre and Dance		\$100,000	1	\$200,000	\$100,000
30	20	SET	Lab Injection Molding machine (Manufacturing Engineering Technology)			1	\$15,000	\$15,000
31	2	IT Services	New Multimedia teaching equipment for 17 new classrooms that currently do not have any technology in them.	1-time money for classroom presentation systems. Replacement cycle will be provided by student technology fees.		1	\$284,000	\$284,000
32	21	SET	Machine Vision Lab to convert visual photographs to computer design images (Mechanical Engineering)			1	\$14,250	\$14,250

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33	22	Memorial Library	20 wired tables for laptop use on the 2nd floor of the Library		10,000	25 stations	\$20,000	\$10,000
34	23	SET	Gaertner Ellipsometer. Replacement item for nanotech clean room (Electrical & Computer Engineering and Technology))			1	\$30,000	\$30,000
35	24	SET	Structures Model 5101 PCI Static Data Acquisition System (Civil Engineering)			1	\$19,740	\$19,740
36	5	Facilities Management/ Delivery Services	Delivery Van	Replaces a '97 van with over 55,000 hard in-town miles. Vehicle used for cross-town pick ups and campus deliveries.		1	\$11,500	\$11,500
37	25	Memorial Library	Computer and Workstation furniture and partitions for a new 25-seat lab on the 1st floor of the Library		\$15,000	20	\$30,000	\$15,000
38	26	SET	ABS Plastic Rapid Prototype Machine (Manufacturing Engineering Technology)			1	\$39,500	\$39,500
39	3	Intercollegiate Athletics	Blocking sleds	program need - replace dilapidated equipment		1	\$8,000	\$8,000
40	27	SET	Field Data Acquisition system for Geotechnical Lab (Civil Engineering)			1	\$6,000	\$6,000
41	28	SET	Upgrade Linux Server for network infrastructure from 100-Mbps to 1,000Mbps (Computer & Information Systems)			1	\$12,000	\$12,000
42	4	Campus Recreation	treadmills	for new recreation center	possibly with HP	4	\$10,000	\$40,000
43	29	SET	BIOLOG Bacterial Identification System for identifying unknown bacteria at a rate of 50 samples simultaneously (Biology)			1	\$37,500	\$37,500
44	30	SET	LVDT, Conditioner, Micrometer (Civil Engineering)			1	\$4,000	\$4,000
45	2	IT Services	New Multimedia teaching equipment for 17 new classrooms that currently do not have any technology in them.	1-time money for classroom presentation systems. Replacement cycle will be provided by student technology fees.		1	\$284,000	\$284,000
46	31	SET	Eddy Current Dynamometer (Automotive Engineering Technology)			1	\$26,000	\$26,000
47	32	SET	Flexural test and Eleastic modulus/poisson's ratio accessories for Forney Compression machine (Civil Engineering)			1	\$4,000	\$4,000
48	33	SET	Microplate Luminometer System assays biochemical activity in cellular samples used in microbiology, molecular and cell biology and biochemistry (Biology)			1	\$31,000	\$31,000
49	34	SET	Advanced Pioneer Robots with laxer range finder (Computer & Information Sciences)			1	\$25,000	\$25,000
50	5	Campus Recreation	ellipticals	for new recreation center	possibly with HP	5	\$4,000	\$20,000
51	35	SET	HPLC System with Autosampler (Chemistry)			1	\$68,000	\$68,000
52	36	SET	Optical Measurement System (Physics)			1	\$19,000	\$19,000
53	37	SET	Uv/Vis Spectrophotometer (Chemistry)			1	\$15,000	\$15,000
54	38	SET	New Wind Tunnel 24in. Test Section (Mechanical Engineering)			1	\$48,700	\$48,700

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55	6	Campus-wide	Phase II -- Clock Transmitter/130 Clocks	Replace malfunctioning building clock systems; maintain one uniform clock time in all buildings with GPS/atomic time adjustment		130	\$25,000	\$25,000
56	7	Facilities Management/ Environmental Health & Safety	Mercury Meter	Used to detect mercury contamination; certifies clean up was completed.		1	\$12,000	\$12,000
57	6	Campus Recreation	tables, chairs, lounge furniture	for new recreation center	with Campus Rec	1	\$30,000	\$30,000
58	4	Intercollegiate Athletics	Digital video editing equipment	Multiple sports could utilize master system		1	\$28,000	\$28,000
59	5	Intercollegiate Athletics	Electrical stimulation/ultrasound combination unit	Athletic Training need for athlete re-hab		1	\$10,000	\$10,000
60	7	Campus Recreation	monitors for cardio equipment	for instruction/education and information	possibly with ITS & HP	40	\$1,000	\$40,000
61	7	Intercollegiate Athletics	Crowd control stations/turnstile gates	Event management control tools		1	\$6,000	\$6,000
62	9	Intercollegiate Athletics	Gator Utility vehicle - Athletic Training	equipped for injured athlete transport		1	\$6,500	\$6,500
63	8	Campus Recreation	weight benches/lifting station	for new recreation center	with Campus Rec	1	\$8,000	\$8,000
64	11	Intercollegiate Athletics	Keypad entry system - Taylor center and ASA	security precautions		1	\$12,000	\$12,000

Part of New Telephone System

65	3	Facilities Management/ Environmental Health & Safety	Emergency Intercom System	Alerts faculty/students of emergencies throughout each building via an intercom system such as weather emergencies; bomb threats, etc.		1	\$160,000	\$160,000
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Removed from List - Does not meet the definitions of Institutional Equipment & Furnishings

66	2	Intercollegiate Athletics	Ice machine at Civic Center Locker Room areas	for games/practices, ice needs to be hauled in		1	\$4,500	\$4,500
67	6	Intercollegiate Athletics	Field stencil	MSU markings on outside facilities		1	\$3,500	\$3,500
68	8	Intercollegiate Athletics	Two-way radios	Event management control tools		1	\$3,000	\$3,000

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69	10	Intercollegiate Athletics	Mascot uniforms	new logo outdates existing Stomper uniforms		2	\$4,000	\$8,000
70	12	Intercollegiate Athletics	Rubber flooring mats - Athletic Training Room			1	\$2,000	\$2,000
71	13	Intercollegiate Athletics	Motorized lift on Equipment Room fire door			1	\$2,000	\$2,000
72	4	Facilities Management/Grounds	Wide-Area Outside Vacuum	Assists the grounds in outside clean up including picking up leaves, trash, cigarette butts and will be used after events.		1	\$3,100	\$3,100

Removed from List - R&R Projects

73	1	Security	Electrical Upgrade for entire office.	Entire office suite is powered by two circuits, with the exception of dispatch. Lights flicker and brownouts occur frequently, for example, if someone prints a document. This has required equipment failure and subsequent replacements over time. All computer equipment in office must be on UPS to prevent damage; however, at least one computer failed recently during an outage. All equipment must be on at least surge protection. Entire office runs on extension cords and power strips. This request has been supported by the Chief Electrician and Environmental Health and Safety Officer.			\$20,000	\$20,000
74	2	Security	humidifier for office	Add humidifier to standalone HVAC or similar. Despite anti-static floor mats and a residential style humidifier, static electricity in dispatch center is severe. Recommended by Communications Vendor Technician, CCTV Technician, etc. Causes equipment damage and painful shocks to dispatch personnel. Contributed to equipment failure during recent planned power shutdowns.			\$10,000	\$10,000

Funded Through ITS Project (Row #10)

75	1	Annual Giving	DialVision Server/Software-Call Ctr	Upgrade per ITS. Used in Call Center. Benefits all colleges/depts/programs		1	\$7,567	\$7,567
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