

Minnesota State University, Mankato

FY10 Institutional Equipment and Furnishings

Updated 3/4/09

Item #	Division Priority #	Department Unit	Equipment Description	Rationale	Matching Funds	Quantity	Unit Price	Total Request	Running Total
1	1	Science, Engineering and Technology	Computer Replacement for TRE315	This lab's computers are now five years old and are becoming significantly inadequate for our courses. Computer Science uses the lab for CS 110, CS 111, CS 209, CS 210, CS 221, CS 300, CS 340, CS 350, CS 365, CS 415, CS 425, CS 430, CS 465, CS 481, CS 490, CS 662, and CS 680. In other words, it is the major instructional lab for the Computer Science program, the Software Engineering program, and the Computer Science graduate program.	NA	32	\$1,000	\$32,000	\$32,000
2	2	Allied Health and Nursing	SimMan 3G Human Patient Simulator	We are requesting funding for a single item – namely a SimMan G3 Human Patient Simulator. This proposal builds on previous infrastructure investments made to enhance our capacity to integrate simulation based technologies across the nursing curriculum. It is the second in a series of requests aimed at upgrading the resources so that we can continue to increase high quality evidence-based education to prepare our student adequately for the rigors of clinical practice. Additionally, with current financial restraints and required cuts in operational costs simulation is one of the only ways that nursing can contain the cost of nursing education while simultaneously improving the quality.	\$95,500 MnSCU IT funding to revise the Obstetrics course. Monies include funding for a high fidelity birthing HPS	1	\$64,630	\$64,630	\$96,630
3	3	Social and Behavioral Sciences	Classroom media equipment, one way mirrors, and furnishings for the new Psy.D. doctoral program space, which includes two seminar classrooms, and four labs.	SBS will be providing matching funds by renovating this much needed, donated space in University Square at a cost of over \$175,000. If all the equipment funds are not available, we may be able to move some furniture over from existing faculty offices.	\$175,000 for space renovation	See attached list (faculty office furniture has been excluded)	\$59,129	\$59,129	\$155,759
4	4	Extended Learning	AV equipment and teacher control station	Need to provide teaching/learning technology in classroom 306 at 7700 France Ave.	NA	1	\$10,542	\$10,542	\$166,301
5	5	Office of the Vice President/Disability Services	Nine 18"x36" adjustable height classroom tables for students with physical limitations that make sitting in traditional tablet arm chair desks impossible. Also nine armless chairs for the accessible desks	2 classrooms in Nelson Hall and 3 classrooms in Morris Hall use small arm chair desks. Students with physical limitations have difficulty sitting in the small desks. One adjustable table in each room would allow for an accessible option . 4 additional tables are needed in the Office of Disability Services testing center. The chairs have a larger cushion and are test-rated to 400 pounds.	NA	9 desks and 9 chairs	Desks are \$625 each and the chairs are \$325 each. There is also a programming and set-up fee of \$365	\$7,988	\$174,289
6	6	Science, Engineering and Technology	Flow Cytometer	Analyze individual cells for DNA content and other components	NA	1	\$60,000	\$60,000	\$234,289
7	7	Office of the Vice President/Center for Academic Success	2 smart boards and projectors	The smart boards will allow us to better meet the needs of students. Our tutoring services are available to all Minnesota State Mankato students and we tutor over 17,000 sessions/year. The quality and flexibility of services will increase with the availability of the smart boards. One smart board will be used by our writing tutors and another by our mathematics/science tutors. The use of the smart boards will also allow us to begin creating more online learning opportunities for students.	NA	2 smart boards and 2 projectors	Smart boards at \$1,600 each and projectors @ \$2,000 each	\$7,200	\$241,489

8	8	Allied Health and Nursing	Hydrotrack underwater treadmill and aquatic therapy treadmill and aquatic therapy system	This piece of equipment would provide support to multiple units. Athletic Training Education: Program accreditation specifically indicates aquatic therapy for upper and lower body injury. We are currently deficient in this area due to Highland Center pool scheduling. Exercise Science Education: Upper-level undergraduate exercise science courses will be able to utilize the Hydrotrack unit. Athletic Training Services: Health care is provided to over 600 student-athletes on campus. This is especially useful with lower extremity injury rehabilitation in terms of early weight bearing.	NA	1	\$57,850	\$57,850	\$299,339
9	9	Social and Behavioral Sciences	Equipment and Software to keep the Geographic Information Science Certificate Program cutting edge. 1) 12 Hand held computers that interface with HP-iPAQ 211 GPS receivers donated by "MicroTrak" (value over \$25,000). 2) Centimeter scale accuracy integrated GPS receiver/hand-held computer: "Trimble Geo XH," so GISc students experience high accuracy equipment. 3) "TruePulse 360-B" Laser Range Finder with GPS interface to define GPS locations at a distance for accurate mapping. 4) Trimbe Terra Sync Professional software to process geographic and locational data from the requested equipment. It will be used in several GISc Certificate Program classes.	This equipment and software has a life span greater than three years and directly enhances the technological and instructional needs of our GIScience Program and the research abilities of Geography and Earth Science students and faculty.	\$25,000 (soft match of previously donated equipment)	See Description Section	\$14,890	\$14,890	\$314,229
10	10	Science, Engineering and Technology	Tektronix DPO4104-(1GHz, 4-channel oscilloscope with 10M record)	New digital oscilloscopes for microprocessor lab; also for courses EET484, 454, 456, 486; EE 614 & 253	NA	2	\$14,000	\$28,000	\$342,229
11	11	Extended Learning	AV equipment and teacher control station	Need to provide teaching/learning technology in classroom 313 at 7700 France Ave.	NA		\$11,034	\$11,034	\$353,263
12	12	Science, Engineering and Technology	Exhaust emissions analysis console for the measurement of engine exhaust emissions	Teaching and research; analysis console will be central to collection of engine efficiency and emissions data	NA	1	\$50,000	\$50,000	\$403,263
13	13	Allied Health and Nursing	ParvoMedics TrueOne 2400 Metabolic Measurement System	A metabolic cart is standard equipment in almost all Human Performance Laboratories. It can be used to measure metabolic rate during exercise and rest and allows for precise determination of aerobic fitness, resting metabolic rate, and can be used to measure lung volumes. Our current metabolic cart (Medical Graphics) was purchased in 2001 and is no longer serviced at a reasonable cost. It currently costs our department approximately \$3500.00 per year to provide a service contract which has been essential to maintenance of performance. We have had to have the unit serviced on an emergency basis at least one time a year for the past 4 years. We propose purchase of an updated ParvoMedics Metabolic System at a considerably lower cost than our current unit. Dr. Robert Pettitt has had extensive experience with the unit at his previous institutions and we are confident that this cart would provide better service at a lower cost for a longer period of time.	NA	1	\$22,903	\$22,903	\$426,166
14	14	Extended Learning	AV equipment and teacher control station	Need to provide teaching/learning technology on a mobile cart at 7700 France Ave. This cart will provide AV needs for locations that do not have AV capabilities	NA	1	\$11,486	\$11,486	\$437,652
15	15	Science, Engineering and Technology	Spectrofluorimeter (HoribaJobinYvon)	Used for Chem. 450/451, 475 annually; research in physical and environmental chemistry; Provides capability for a common spectroscopic technique that is not available otherwise in the college.	NA	1	\$26,300	\$26,300	\$463,952
16	16	Science, Engineering and Technology	Vertical, benchtop x-ray diffractometer	Used by faculty for material studies with possible sharing with chemistry faculty. Also used heavily by graduate students in medical physics, radiation in industry, technology, and medicine.	NA	1	\$75,000	\$75,000	\$538,952
17	17	Science, Engineering and Technology	Tektronix DPO4AUTO-Application Module for Automotive Serial Triggering & Analysis	Instrument used in computer engineering courses.	Na	20	\$1,250	\$25,000	\$563,952

18	1	Intercollegiate Athletics	Sheltered bench structure for women's soccer field	There is currently no "in match" weather protection area for the home and visiting teams at the MSU soccer pitch. This becomes a health, safety, and student-athlete welfare issue when considering the weather extremes of the fall season, with 90 degree temperatures possible during August and cold and snow more the norm in November.		2	\$5,800	\$11,600	\$575,552
19	2	Intercollegiate Athletics	Thermal ticket printers and ticket system hardware	This equipment is necessary for the department to move forward with the implementation of an online ticketing system. Such a system would not only modernize the operation, but would allow for a more sophisticated approach to database management, while improving financial reporting and auditing control.	Possible recovery of equipment and related costs via customer service charges.	1	\$15,000	\$15,000	\$590,552
20	3	Intercollegiate Athletics	Athletic Equipment Room track storage system	Allows athletic equipment to be stored and retrieved more efficiently within the athletic equipment room. Would result in increased storage capabilities and increased staff efficiencies, keeping operating costs to a minimum. This type of portable, moveable storage is especially critical during pre-season when teams are temporarily displaced from Highland Center facilities to the Taylor Center during Vikings training camp.		1	\$16,500	\$16,500	\$607,052
21	4	Intercollegiate Athletics	Color Laser printer/scanner	Athletic Communications Office. Would allow for Sports Information Office to produce small quantity, full color programs, handouts, and media pieces efficiently for non-revenue producing and tier II sports such as women's hockey, volleyball, soccer, etc.		1	\$4,500	\$4,500	\$611,552
22	5	Intercollegiate Athletics	Highland Center Locker Rooms card access system	Continued implementation of card access system to alleviate security and safety concerns.		1	\$40,000	\$40,000	\$651,552
23	6	Intercollegiate Athletics	Portable Press Box	Provide adequately weather-protected scorer table/press box/filming station at outdoor athletic facilities such as soccer, softball, and baseball.		1	\$16,500	\$16,500	\$668,052
24	7	Intercollegiate Athletics	Stomper mascot suit	Would allow Stomper to make many more campus appearances and allow for appearances at simultaneous events. It should be noted that there are currently numerous requests for Stomper to appear at campus-related events beyond intercollegiate athletic events.		1	\$5,000	\$5,000	\$673,052
25	8	Intercollegiate Athletics	Weight Room equipment upgrades	Replace old worn weight presses, lifting stations and equipment that is becoming worn and potentially hazardous.		1	\$8,000	\$8,000	\$681,052
26	9	Intercollegiate Athletics	Athletic Training Room student-athlete rehabilitation equipment	Game Ready rehab unit and accessories to help increase rehab time for student-athlete injuries		1	\$6,000	\$6,000	\$687,052
27	1	Facilities/Building Repair	GPS Clocks for public spaces	These clocks automatically reset to the correct time via a radio signal. This request expands the existing clock system to include two faced hallway clocks in academic buildings and two large clocks for the field house.		42	varies	\$11,000	\$698,052
28	2	Facilities/Grounds Maintenance	Dump and Plow Truck for Grounds	The existing 1994 dump truck is used for plowing snow and applying sand salt mixture to the roads, lots and sidewalks during the winter. This truck is also use for hauling dirt, woodchips and other grounds landscape material during the spring and carries the watering tank for the flower beds during the summer. The number of hours on this vehicle are getting high and plowing snow is hard on the transmission and drive train. Both the groundskeepers and garage mechanics have recommended this vehicle for replacement.	\$6,500 trade \$25,750 Parking \$10,000 Facilities Core Block \$5,000 Cross Charge Account	1	\$60,000	\$12,750	\$710,802

29	3	Facilities	Bobcat Skidster for grounds department	Replace the existing 1995 vintage Bobcat with a new Bobcat S205. The Bobcat uses multiple attachments including snow bucket, snow blower, auger, pallet forks and the standard landscape bucket. At MSU the primary use for the Bobcat is snow removal close up around buildings and other tight areas with the snow bucket. The blower attachment is used less frequently but is essential during heavy snow events. The auger attachment is used for outdoor sign posts and forks used to assist delivery services and other departments receiving pallets of equipment or materials. Benefits to this upgrade include increased horsepower and lifting capacity for pushing and piling snow. This new unit also has a speed gear for traveling from the shop to the work site more quickly and an automatic coupler to save time changing attachments. Cost new is \$28,490 on state contract less approximate \$8,500 trade value on the old unit for a net request of cost MSU of \$19,990.	Trade value of old \$8,500	1	28,490	\$19,990	\$730,792
30	1	TelePresence and audio video conferencing solution for MSU and 7700 France points.	Large screen displays, cameras, speakers, microphones, tables, chairs, scheduling software and lights. All equipment necessary for ITV rooms at 7700 France and MSU campus	Provides opportunity to have synchronous classes at 7700 France and MSU where professor and students could be in either location. More sections can be offered at each location and increase the number of students enrolled for those classes at no additional cost.	Matching funds from Cisco, Student Technology Fees, and MnSCU IT Initiative funds			\$70,000	\$800,792
31	2	ITS, Graduation, Convocation and others.	Projection screens (one large and two smaller) and electrical infrastructure for Bresnan Arena for convocation, graduation and other large events.	For major events in Bresnan Arena we to contract to have person hang projection screens in the rafters. Also, there normally isn't projection equipment for convocation or for showing video of students during graduation for family in the back of the arena. This request is for retractable screens, installation of the screens, and electrical and control wiring to power the motors.	Used projection equipment and control systems stored that will be used.			\$20,000	\$820,792
32	1	SA/Campus Recreation	Install Mechanical Turnstile Arms at Otto Recreation Center	One goal when Otto Arena was remodeled to Otto Recreation Center was to control access. With the current system we cannot stop non-students and fake ID users from gaining access.	\$0.00	1	1	\$20,000	\$840,792
33	2	SA/Security	Communications Center Furniture	Complete project supported with partial institutional equipment funds received FY09. Was listed as institutional priority number one for unfunded institutional equipment funds in FY09.	\$12,000.00	1	1	\$12,000	\$852,792
34	3	SA/Veterans Resource Center	Furnishings for Veterans Resource Center: lounge furniture, workstations, bookshelves, tables	Furnish Veterans Resource Center that provides programmatic space for increasing population of student veterans.	\$0.00	1	1	\$5,000	\$857,792
35	4	SA/Security	Office furnishings for security substation located in Student Union	Furnish security substation located in the student union that provides central location for a portion of security activities.	\$0.00	1	1	\$5,000	\$862,792
36	5	SA/Security	Redundant VoIP and analog backup telephone equipment to serve security communications center	Back-up dispatch analog communication system.	\$9,000.00	1	1	\$9,000	\$871,792