Minnesota State Colleges and Universities — Projects Summary

($ in thousands)

Project Title	Priority Ranking	Funding Source	Project Requests for State Funds 2016	2018	2020
Higher Education Asset Preservation and Replacement	1	GO	$ 110,000	$ 0	$ 0
South Central College, North Mankato - STEM and Healthcare Design and Renovation	2	GO	$ 8,600	$ 0	$ 0
Minnesota State Community and Technical College, Fergus Falls - Center for Student and Workforce Success Design and Renovation	3	GO	$ 978	$ 0	$ 0
Minnesota State Community and Technical College, Wadena - Library and Student Development Design and Renovation	4	GO	$ 820	$ 0	$ 0
Northland Community and Technical College, East Grand Forks - Laboratory Design and Renovations	5	GO	$ 826	$ 0	$ 0
Bemidji State University - Academic Learning Center (Hagg Sauer Replacement), Design, and Renovation	6	GO	$ 18,097	$ 0	$ 0
Rochester Community and Technical College - Memorial and Plaza Halls Removal, Design, Renovation and Construction	7	GO	$ 20,385	$ 0	$ 0
Hibbing Community College - Campus Reconfiguration	8	GO	$ 9,958	$ 0	$ 0
Winona State University - Education Village Phase 2, Renovation and Demolition	9	GO	$ 25,306	$ 0	$ 0
St. Cloud State University - Student Health and Academic Renovation	10	GO	$ 18,572	$ 0	$ 0
Minnesota State University, Mankato - Clinical Sciences Phase 2, Design and Renovation	11	GO	$ 6,525	$ 0	$ 0
Anoka-Ramsey Community College - Nursing &Active Learning Center Design and Humanities Renovation	12	GO	$ 4,965	$ 24,926	$ 10,260
Century College, East Campus - Applied Technology Center	13	GO	$ 5,500	$ 0	$ 0

Hennepin Technical College - Advanced Manufacturing Integration and Revitalization, Phase 1, Design and Renovation	14	GO	$ 8,231	$ 9,423	$ 0
Normandale Community College - Classroom and Student Services Renovation, Design	15	GO	$ 1,100	$ 13,217	$ 19,657
Minnesota State University Moorhead - Weld Hall Renovation, Design	16	GO	$ 775	$ 14,430	$ 0
Inver Hills Community College - Technology and Business Center Renovation, Design	17	GO	$ 1,000	$ 9,979	$ 0
Riverland Community College, Albert Lea - Transportation, Trade and Industrial Education Center, Design, Construction and Renovation	18	GO	$ 7,427	$ 0	$ 0
St. Cloud Technical and Community College - Classroom Initiative	19	GO	$ 625	$ 0	$ 0
Minneapolis Community and Technical College - Hennepin Skyway, Design and Renovation	20	GO	$ 4,469	$ 0	$ 0
Twin Cities Baccalaureate Access	21	GO	$ 10,000	$ 0	$ 0
Total Project Requests			$ 264,159	$ 71,975	$ 29,917
General Obligation Bonds (GO) Total			$ 264,159	$ 71,975	$ 29,917

($ in thousands)

Higher Education Asset Preservation and Replacement

AT A GLANCE

2016 Request Amount:	$110,000
Priority Ranking:	1
Project Summary:	Minnesota State Colleges and Universities is seeking $110 million in Higher Education Asset Preservation and Replacement (HEAPR) funding for repair and replacement of building systems at its 54 campus locations.

Project Description

Project Rationale

- HEAPR funding ensures that campus operating dollars are used to improve educational outcomes
- Keep students safe, warm and dry
- Reduces total cost of ownership costs for the system
- Reduces the system's long term deferred maintenance outlook (currently $1.1 billion)
- HEAPR meets the state and the system objectives of creating sustainable buildings

Other Considerations

Impact on Agency Operating Budgets

Description of Previous Appropriations

$42.5 million in 2014 Capital Bonding Bill

Project Contact Person

Gregory Ewig
System Director, Capital Development
651-201-1775
gregory.ewig@so.mnscu.edu

($ in thousands)

South Central College, North Mankato - STEM and Healthcare Design and Renovation

AT A GLANCE

2016 Request Amount:	$8,600
Priority Ranking:	2
Project Summary:	This project will renovate 33,975 sq. ft. on the North Mankato campus, improving space for healthcare, STEM, computer, and agribusiness lab and classroom spaces, and renew approximately 81,515 sq. ft. with the removal of asbestos, upgrading HVAC systems and replacing portions of old roofs. The result of this effort will be student and faculty environments that simulate real life experiences and prepare students to enter the workforce with the skills they need to be successful.

Project Description

The greatest numbers of jobs projected for 2009–2019 in southern Minnesota are in health care, STEM, and manufacturing occupations. The requested renovation directly supports programs that serve these workforce needs. In addition, several of these programs have degrees that articulate to four-year universities. The requested bonding will also allow SCC to situate classrooms, labs, and faculty offices for related programs in the same physical area. This will build familiarity to the layout of a four-year university and allow students to interact with others in similar fields of study.

SCC implements programs based on current workforce demand and the needs of our industry and community partners. Several new programs have been identified to address our region's current needs including industrial maintenance, welding, agronomy, and additional STEM programs. These programs require lab space that is up-to-date with the latest technology. Since the majority of the identified spaces haven't been renovated since the campus was built in 1968, SCC will not be able to offer students an extraordinary (or even relevant) education without updates. In addition, the resulting flexible, multipurpose labs will provide experiential learning opportunities which will increase SCC's retention, completion, and transfer rates by providing opportunities that fulfill the needs of kinesthetic learners.

SCC uses ITV technology to connect campuses and decrease course delivery costs. Using this technology also provides the ability to connect with other MnSCU institutions that provide common academic programs. This allows students to take classes at SCC after they have articulated to a four-year university; for example, Southwest Minnesota State. The addition of new ITV technology in the fab lab will allow students to connect their peers in fab labs across the United States.

Project Rationale

The requested renovation and renewal directly supports programs that serve our region's workforce and the needs of our industry, workforce, and community partners. Several new programs have been identified to address these needs including maintenance, welding, agronomy, and additional STEM programs. These programs require lab space that is up-to-date with the latest technology. The majority of the spaces identified for these labs have not been renovated since the campus was built in 1968. Approximately 1,700 students will be impacted by this renovation. In addition, TRIO offices will

be relocated near the advising center and Veteran's Resource Center to support the academic success of underrepresented students.

Other Considerations

SCC has found space within the footprint to renovate instead of creating additional space, as we realize that the campus's space utilization favors renovation to addition. The college at one time sought out leased space; however, the remodeling and updating that this space would require makes leasing an impractical solution at this time.

SCC realizes that the North Mankato campus's current overall space is adequate but it must be renovated to meet today's standards. SCC has made a substantial effort to secure external funding for program initiatives. The college has brought in $10 plus million in external grants since FY09. These grants come with restrictions which limit the ability to make environmental changes to support these programs. As a result, classroom and lab renovations and other facility changes must be supported through alternative funding.

A delay in funding will keep several classrooms, labs and systems at the 1968 levels; result in the inability to offer an A.S. in agronomy or support the Southern MN Center of Agriculture; keep the TRIO offices isolated from other student services; and additional welding stations will not be added. This delay will have a direct impact on our student achievement gap and regional workforce needs.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Annette Parker
President
507-389-7207
annette.parker@southcentral.edu

($ in thousands)

Minnesota State Community and Technical College, Fergus Falls - Center for Student and Workforce Success Design and Renovation

AT A GLANCE

2016 Request Amount:	$978
Priority Ranking:	3
Project Summary:	This project designs and renovates 14,362 sq. ft. and repurposes the existing library, meeting and classroom space, including two classrooms, a conference room, and the integration of the regional workforce center. The project will also update a portion of the existing restrooms on campus to make them fully ADA accessible. The project has extensive backing from organizations within the community which would provide donations to cover $750,000 of the total project cost.

Project Description

Access to an extraordinary education for all Minnesotans will be expanded by offering entry-to-exit services for students and residents of the region by the Center for Student and Workforce Success. The CSWS will be available to students and community members who are graduating from high school, employed, under-employed, unemployed, seeking readily available and will positively impact retention and completion through job placement or transfer to a university. CSWS will include M State, non-profit, state and federal services, retraining or interested in higher education. Academic and career planning services will be with multiple agencies with distinct service missions all located in one facility. As a result, there will be expanded access to education and employment options for students, workers and community members. Partnerships are the foundation of the Center for Student and Workforce Success. These partnerships combine several elements that will greatly enhance the services provided to the workforce and Fergus Falls area communities. The co-location of multiple workforce agencies and M State will mean more efficient delivery of services to community residents and will create synergies between the services provided by the college and those provided by workforce agencies to their clients. Job searches, retraining, employer postings, resume building, academic advising and transfer counseling currently take place at multiple locations and are done independently of each other. CSWS will provide a one-stop site for both M State students and community members who are training, retraining, unemployed or under-employed. The Center for Student and Workforce Success is based on a partnership between M State - Fergus Falls Campus and the offices of DEED, Rural MN CEP, Veterans Services, Someplace Safe, the Department of Vocational Rehabilitation, State Services for the Blind and Experience Works (Green Thumb).

Project Rationale

This project calls for the establishment of a collaborative Center for Student and Workforce Success (CSWS) on the Fergus Falls campus of Minnesota State Community and Technical College. Under the umbrella of the CSWS, M State will combine the college's access, career and transfer services with the services offered by the current Regional Workforce Center and its participating federal, state and local partners in Fergus Falls. This partnership and collaboration will expand community access

to both education and employment options, better fulfilling the mission of each organization. CSWS will update and repurpose existing library, meeting and classroom spaces which are currently underutilized and in need of finish and equipment upgrades.

Other Considerations

Locating these services together will lead to increased efficiencies for M State and the individual agencies and provide new opportunities for collaboration. Underutilized space on the Fergus Falls Campus will be converted to improve facility space utilization, repurposing space for one-third the cost of new buildings. The working environment for the Regional Workforce Center will be enhanced; the center is currently housed in an overcrowded, below-ground former retail space. Unfunded, the one-stop shop concept is negated, and service to students and citizens reduced significantly. In addition, campus space utilization will continue to decline. The modernization of this space is vital to the health and stability of the campus and the educational experiences for the local students and local citizens.

This space has not been renovated since the early 1970s. Renovation for the CSWS will displace two classrooms and a meeting room, with most of this space leased to the collaborating partner agencies which will operate on the campus and generate revenue for the college on a long-term basis.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Pat Nordick
Chief Financial Officer
218-347-6209
pat.nordick@minnesota.edu

($ in thousands)

Minnesota State Community and Technical College, Wadena - Library and Student Development Design and Renovation

AT A GLANCE

2016 Request Amount:	$820
Priority Ranking:	4
Project Summary:	This project will relocate the campus library to underutilized space, convert the space the library will vacate into a student development center that will be much more accessible to students and the general public, complete minor renovations to accommodate staff relocating from a Perham lease location.

Project Description

The Wadena campus has made significant strides in improving educational access, increasing student success, and supporting student persistence by providing current-day best practices in identifying and intervening with at-risk students. Those efforts have increased fall-to-spring persistence by 3% from FY11 to FY13, and fall-to-fall persistence has increased by 6% over the same time period. In addition, an increasing percentage of our students are coming to us as Pell-eligible, moving from 45.7% in 2012 to 97.4% this past fall and ensuring access to an extraordinary education assumes offering easy access to services supportive of a population-in-need. The renovated library component in this project will give students study space within the library as well as just outside the library in the student commons area. The library on the Wadena campus currently serves a student headcount of 601 students. For the 2013-14 academic year, the monthly gate count ranged from 1,395 student visits to 2,428 student visits. Students rely on the library as a place to study, research, and access computers and instructional materials for completing their homework. The library serves as a hub of activity for students on the campus and provides students with access to information and technology that supports their learning. This project will include the addition of three study rooms where individual students will be able to study in a quiet and comfortable atmosphere or work together collaboratively in small groups. Each room will be equipped with a wall mounted monitor along with a white board presenting the opportunity for students to be able to use the latest in educational delivery. The library facility project will create additional opportunities for students to learn collaboratively in a technologically modern facility. The Wadena library also provides proctored testing services for a large number of the students who are taking online classes, which is an area of enrollment growth for the college.

Project Rationale

As outlined in the campus Master Facility Plan, the Wadena campus needs a more visible student development center as well as more study areas for individuals and small groups of students. This project would locate the library in classrooms that had been taken off line after the 2010 tornado. This will assist with student engagement and circulation on the campus. The library will include additional study space for students, which has been a request of students. By renovating the existing library space into a more visible student development center it will be much more accessible for students which will help with student retention and success.

Other Considerations

During the 2013-2014 academic year, approximately 300 students used the Wadena library for proctored testing services. A small testing room will be part of the new Wadena library plan and will provide students with a significantly improved quiet and supportive testing atmosphere. The design of the new library space is such that it will improve the quality and availability of important academic support services that are designed to aid student persistence and completion. The study rooms and the testing room will be a real benefit for students. This project better uses underutilized space and provides for a more efficient student development setting.Ongoing efforts to improve student engagement with Student Development Services (SDS) are hampered by an unwelcoming facility layout with the majority of SDS staff tucked in amidst administrative offices, not visible to hallway traffic and not easily accessible to students. Advisors have taken to setting up operations in the hallway, just to interact with students who otherwise have difficulties finding their way to advisors' offices thus creating potential OSHA violations. Clustering of services as outlined in this project creates efficiencies in collaborative efforts that would allow us to add additional success initiatives. This project would also allow for more accessible space to a Veteran's Center as well as a campus learning center. It would also relocate our student services in close proximity to the campus bookstore, foodservice, and student gathering space which should greatly improve student traffic patterns. In addition, M State is in the process of closing down a leased site in Perham, and this project will further accommodate the cost-saving measure of moving Perham staff to the Wadena campus. Creating a more welcoming point of entry for the campus, and providing additional individual and group study space outside the classroom is a major theme in our Master Facility Plan.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Pat Nordick
Chief Financial Officer
218-347-6209
pat.nordick@minnesota.edu

($ in thousands)

Northland Community and Technical College, East Grand Forks - Laboratory Design and Renovations

AT A GLANCE

2016 Request Amount:	$826
Priority Ranking:	5
Project Summary:	This project will renovate three science and one radiologic technology lab totaling approximately 5,204 sq. ft. on the East Grand Forks campus.

Project Description

Science lab updates will improve safety and provide an up to date laboratory experience for approximately 600 students each year. The science courses and respective laboratories serve as part of the core curriculum for both practical and registered nursing programs, as well as ten allied health programs.

The renovation will improve interactions between students and faculty. The redesigned space will allow all students to be able to clearly see the instructor as the lab activities are demonstrated or important topics are covered. Better engaged students are students that excel, which is really the measure of extraordinary education experience.

The renovation will also allow for the implementation of new technologies to the lab rooms, which are not possible with the current design. The renovated room in the anatomy lab will allow for incorporation of new technologies in anatomy and physiology, including the incorporation of virtual cadavers, life-size touch screen counters that allow students to virtually dissect a human cadaver. The ability to use virtual cadavers effectively would revolutionize the anatomy lab. With the current lab design it would be too cramped to have the cadavers out all the time, meaning having to wheel these fragile and expensive counters in and out of the lab.

The redesign of the microbiology lab will allow for incorporating molecular biology technologies and techniques. This will allow students to learn current molecular lab techniques, providing them with hands on knowledge of many advanced concepts, including DNA replication, gene structure, cell cloning, DNA sequencing, and genetic modification. The new lab design will allow for better integration between lecture topics and lab demonstrations, which will greatly increase student success, since the students will be able to practice what they have learned.

Radiologic technology lab space updates will facilitate conversion to providing the most current technologically advanced digital equipment for the students at the college and will increase their access to extraordinary education. This renovation will allow students to critically think about problems and apply creative solutions in a controlled lab setting instead of depending solely on the clinical training for this experience. By adding computer work stations in the lab, students are able to work on digital images with close supervision by the instructor while other students work on positioning and technique for exposures. This will allow for group activities and teamwork simulations to be incorporated into the curriculum for students.

Each of the renovations in this project will provide students with a contemporary, state-of-the-art laboratory experience in their courses. As mentioned above, the science courses and respective

laboratories serve approximately 600 students per year for nursing and allied health programs. These renovations will allow for expansion in other STEM fields such as biological lab technician. Having contemporary lab spaces will better prepare students for the transition to the workforce.

In addition, the radiology program is recognized by area health care facilities as providing high quality graduates. Upgrading the equipment and space is critical to maintaining this respected status of providing quality graduates to area healthcare providers.

Census data supports there will be an increase in the need of the number of quality health care professionals in the future due to the aging population. The nursing and allied health programs strive to meet the demands of area healthcare providers in the region and support the current as well as future need.

Renovations of the science laboratories will allow for higher enrollment in chemistry labs increasing capacity from 18 to 24 students, and repartitioning of square footage of the Microbiology or Anatomy Labs will increase the usable lab space for students, allow for better delivery of content to students, and better interaction between faculty and students and between students themselves. In addition, renovations of the science laboratories allow the space to be more flexible for the inclusion of new technology such as the virtual dissection cadaver. The shifting of the chemistry preparatory and storage room into a current classroom maintains space adjacent chemistry lab (conference room) that can be converted into space for a chemistry technician program as a future program expansion opportunity.

Radiologic technology updates allow the opportunity to increase program capacity by over ten percent. Approval will be sought from the accrediting agency, Joint Review committee on Education in Radiologic Technology, to increase program enrollment by four students. These improvements not only increase the quality of student learning experience but also the effectiveness and efficiency of learning. More students can be better served in the same space.

Project Rationale

Safety concerns exist in the current design of the science laboratory and the renovation will correct these and other safety concerns, such as improperly vented fume hoods, a chemistry storage area that is only vented when the fume hoods are on, poorly designed sinks that spill water on the floor. The project will increase access to eyewash and emergency shower stations. The remodel will also bring the labs up to ADA compliance.

Other Considerations

The safety issues and improvement of ADA compliance alone warrant remodeling the science labs. However, being left behind the tide as science expands as never before seen is a major consequence of delayed funding for our ability to meet the workforce needs of the region. In the past five years the understanding of molecular biology and expansion of molecular techniques, applications, and opportunities is unrivaled. This expansion is seen in the growing need for students that are trained in these very specific skills to work in this ever growing multi-billion dollar industry. Technological growth in the sciences will also impact healthcare and a consequence of not funding the renovations is that we will not be able to provide high quality training for health programs. We can already see this consequence as our radiologic technology lab has been outdated with the current business and industry standard.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Bob Gooden
Director, Facilities, East Grand Forks
218-793-2450
bob.gooden@northlandcollege.edu

($ in thousands)

Bemidji State University - Academic Learning Center (Hagg Sauer Replacement), Design, and Renovation

AT A GLANCE

2016 Request Amount:	$18,097
Priority Ranking:	6
Project Summary:	The project includes the demolition of Hagg-Sauer Hall, construction of a new 25,000 sq. ft. classroom building, and renovation of underutilized space in 5 other campus buildings to relocate 12 academic departments. Design for this project was provided in the 2014 bonding bill.

Project Description

Almost all students at the university spend their first two years fulfilling their liberal education requirements. The current Hagg-Sauer limits flexibility for faculty as it is set up to only accommodate lecture-based instruction and the faculty are not easily accessible to students as they are all located in small, private offices on the top floor of the building. Access to an extraordinary education will be enhanced by this project. The replacement of classrooms along with the renovations of other buildings will significantly change the feel of the learning environment to create more open traffic for students and more inviting entrances to buildings.

Updated facilities for some programs such as geography, computer science, and psychology will help enable more access to current technologies and the ability to have the right type of space to work with community partners. Psychology, one of the more popular majors at BSU, is currently constrained with research labs that were built in the 1960s and 1970s. This type of research is outdated and the facilities are not flexible enough to accommodate new research technologies. This project has been determined to deliver the highest value at the most affordable option. Just about every student at BSU will be impacted by this project as it will considerably improve the learning environment. Asset preservation backlog will be reduced by approximately $9 million. The number of classrooms on campus will decrease by one-third, yet the flexibility of the available rooms will provide the university more quality options than it currently has. Space utilization on the campus will increase considerably after these changes and remove 58,000 sq. ft. from overall campus square footage. This project will also reduce energy consumption and other operating costs as the current Hagg-Sauer has outdated HVAC systems and is not able to take advantage of natural daylight.

Project Rationale

This request will achieve multiple goals in the university's strategic, academic, and facilities plans. Over half of all students will be directly impacted by the improvements that will be made in their learning environments and by creating "front doors" for several departments and disciplines. The project will reduce campus square footage by 58,000 GSF, decrease the deferred maintenance backlog, and improve campus classroom utilization. Hagg-Sauer Hall, the current main classroom building on campus, has not been renovated in over forty years and has one of the highest FCI values on campus. The learning environment is compromised due to poor light levels and limited daylight, limited student gathering spaces, and inflexible classrooms.

Other Considerations

In studying several alternatives, the university chose the one that ensures that all academic programmatic needs were met in a progressive fashion along with improving the overall campus environment for our students, plus meeting goals of being more efficient and stronger stewards of our assets. This proposed project, along with the Memorial and Decker Hall renovation project that is currently in progress, significantly advances the major goals of the long-term university facilities plan. We are making substantial improvements in energy efficiency, reducing campus square footage, reducing asset preservation backlog, and increasing the connection to Lake Bemidji.

Impact on Agency Operating Budgets

Description of Previous Appropriations

$1 million for design provided in the 2014 bonding bill

Project Contact Person

Karen Snorek
Vice President for Finance and Administration

($ in thousands)

Rochester Community and Technical College - Memorial and Plaza Halls Removal, Design, Renovation and Construction

AT A GLANCE

2016 Request Amount:	$20,385
Priority Ranking:	7
Project Summary:	The project will complete design; demolish approximately 38,000 sq. ft. of severely outdated classroom/office space, daycare, and a maintenance shed; add a 20,000 sq. ft. academic building expansion;renovate 11,190 sq. ft of academic space; and increase energy efficiency with the construction and installation of a new central chiller.

Project Description

As the partner of choice, RCTC collaborates with Mayo Clinic as its number one provider of trained workers. In 2012-13, the job placement rate for students in the Practical Nursing and Health Unit Coordinator Programs was 93% and 84%, respectively. An innovative partnership program between RCTC and Rochester Public Schools will build a career and technical education facility for high school students to meet community needs. The college also houses the region's Workforce Center. This project leverages these programs by improving the college's holistic approach to serving the community. Our access to education is evident as the largest higher education provider in the fastest-growing city in Minnesota whereby serving more than 8,000 students a year in credit courses and 3,700 in non-credit continuing and workforce education programs. This project continues to provide flexible classroom formats necessary for all levels of education. The flexible spaces, different size/shapes of classrooms, and movable furniture are necessary for the 21st century learner.

The entirety of this project reinforces the college's commitment to deliver to students, employers, communities and taxpayers the highest value/most affordable option. More than 80 percent of RCTC graduates find employment related to their field within one year of graduating. The College's 95 articulation agreements with two and four year institutions ensure that credits earned here will be accepted at transfer institutions. The college enjoys generational equity, with approximately 62% of area residents indicating that they or a member of their immediate family have attended RCTC at some time.

This project will enhance the campus's past success by providing a more efficient and comfortable learning environment while reducing overall costs, improving space utilization, and eliminating excessive deferred maintenance costs.

Project Rationale

The project is a substantial reworking of the Rochester Community and Technical College campus designed to accommodate collaborative/interactive learning, reduce facility backlog by $4.4 million, and rid the campus of obsolete space. The project will create and improve direct connections between students and faculty, creating appropriately-sized and equipped classrooms supporting flexible scheduling, and improve access and interactivity of faculty/student collaboration. The project tackles key deferred maintenance issues plaguing the college, and will improve indoor air quality and energy

efficiency, reduce campus size by 18,000 sq. ft. by getting rid of Plaza and Memorial Halls, which is expected to generate an improvement in the facilities condition index from 0.16 to 0.04.

Other Considerations

The project removes 38,000 sq. ft. of substandard space, reduces the campus by 18,000 sq. ft., eliminates $4.4 million of deferred maintenance and increases space utilization from 47% to 74%. The steps taken to maximize space utilization involved multiple steering committee meetings, interviews with affected academic programs, and review of existing statistical information including space utilization, office inventory, and facilities condition indices. Four different alternatives were considered. Exhaustive analysis of this information, the Facility Master Plan, the original Predesign, and the MnSCU Demolition Predesign suggests a combination of renovated and new construction. This predesign provides the functional and forward looking educational facility to meet the needs and goals of this project.

The consequences of delayed funding mean the backlog of deferred maintenance will increase causing the facility condition index (FCI) to continually exceed the MnSCU benchmark goal of .07 to.13. The HVAC and electrical systems in both buildings are beyond their average lifecycle and could fail at any time. Air quality and occupant comfort is poor throughout the buildings because of antiquated and poorly controlled HVAC systems causing a high number of complaints and additional service costs. There are issues with the chiller plant backlog that will be exacerbated. The college would be unable to convert the buildings from all electric heating and cooling to a centralized system that would allow for more efficient energy usage and reduce the overall utility cost. Neither Memorial Hall nor Plaza Hall contain a fire sprinkler suppression system, an issue that would continue to exist. The fire alarm system would remain outdated. Classrooms fail to meet the current pedagogical interactive learning styles necessitated in today's higher educational environment. The college would be unable to effectively eliminate underutilized classroom space. Restrooms would not meet ADA clearance or height requirements.

Impact on Agency Operating Budgets

Description of Previous Appropriations

$1 million for design in 2014

Project Contact Person

Stephen J. Schmall
Vice President of Finance and Facilities
507-285-7214
steve.schmall@rctc.edu

($ in thousands)

Hibbing Community College - Campus Reconfiguration

AT A GLANCE

2016 Request Amount:	$9,958
Priority Ranking:	8
Project Summary:	This project will reorient the front door of campus to face 25th Street, construct a new entryway, and demolish Building G and the southwest wing of Building F along with several covered walkways. The project also will renovate Buildings M, L, F, C, &D for creation of a one-stop student services hub, more efficient library and academic center space, and space for Advanced Minnesota, NHED's regional, customized/continuing education training enterprise.

Project Description

This project will provide Advanced Minnesota a new technologically supported, central accessible location in which to serve the 500 businesses and 14,000 individuals of the area's incumbent work force.A new one stop student services area will provide current and future student convenient access to enrollment, registration, and financial aid services.

This project supports HCC's role in being the partner of choice to meet Minnesota's workforce needs. A centralized and updated space for Advanced Minnesota will better serve incumbent workers. Additionally, a one stop student services center and improved academic support will aid enrollment and student success.

This project reduces the college's physical footprint and associated operational costs by an estimated $60,000 annually. Mismatched spaces will become modern; flexible learning spaces and academic services will operate more efficiently. The collective savings of these efficiencies will allow more investment into the college's academic programs.

Project Rationale

Reduction of Campus Deferred Maintenance Log. Improve campus space utilization and spatial relationship to community. Improve and simplify campus circulation. Improve energy efficiency and service student and staff by housing everyone closer to the main educational space. Provide access to improved technology, flexible classrooms, and flexible learning environments. Our faculty and staff will provide the best education available in Minnesota, preparing graduates to lead in every sector of Minnesota's economy. We will continue to be the place of opportunity, making education accessible to all Minnesotans who seek a college, technical or university education; those who want to update their skills; and those who need to prepare for new careers.

Other Considerations

Remodeling Building M will create a consolidated one stop student services center located near the new college entrance. Services available to students in this area will include Admissions, Registration, Advising, Financial Aid, and Counseling. The co-location of all student services to a readily accessible place on campus will better serve all students, in particular underrepresented students and first

generation students who commonly may need more, but not seek out various student services.

Library/Academic Center: Currently the library is not located within the main student traffic flow and is underutilized and consumes a space that is larger than needed. The academic center is in a makeshift classroom in the science building. Rightsizing, relocating, and combining the library and academic center to the north portion of Building M provides a consolidated location for all the college's learning resources and academic support services, such as tutoring, individualized learning, disability accommodations, and testing, geographically centered in the middle of the academic programs and classrooms. This space will provide optimal academic service to students in a more efficient manner.

Advanced MN/Customized Training Center is a consolidation of the five NHED customized training departments into one enterprise Housed in HCC's Building G, Advanced Minnesota is in a mismatched space to serve its 500 businesses and 14,000 individual customers. Elimination of "dead" space and creation of a large, flexible, technologically advanced, dedicated classroom is essential to serving Advanced Minnesota customers. Moving Advanced Minnesota into a repurposed space in the lower level of Building L will provide accessible classroom, lab, and office space. Currently, off campus space is at times used to accommodate access and scheduling, which increases operational costs.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Design in the 2014 bonding bill of $381,000

Project Contact Person

Karen Kedrowski
Vice President of Finance and Administration
218-748-2418
kkedrowski@nhed.edu

($ in thousands)

Winona State University - Education Village Phase 2, Renovation and Demolition

AT A GLANCE

2016 Request Amount:	$25,306
Priority Ranking:	9
Project Summary:	Phase 2 of the Education Village project completes the renovation of Wabasha Hall, selective demolition and renovation of Cathedral School, demolition of the Annex between Cathedral and Wabasha Rec.

Project Description

The Education Village Project includes the reuse of three buildings, Wabasha Hall, Wabasha Rec Center and the Cathedral School, that will be renovated into a modern, integrated space that supports a truly transformative proposal--purposefully-designed specialty labs and classrooms for all education programs.

The design supports diverse learning styles and the efficient delivery of instruction, taking full advantage of emerging methods and tools. The repurposed, technology-enabled, flexible classrooms will facilitate proven pedagogies and allow faculty and students to flourish as innovative methods are implemented. The design provides for innovative learning spaces and instructional delivery consistent with students' learning styles. New hybrid models that blend classroom and online learning opportunities will meet student demand. New pedagogical delivery and redesigned curriculum will be supported by the renovated spaces ensuring students, faculty and community will have access to extraordinary education.

The project will allow for enhanced partnerships with school districts, businesses, and agencies. Many of the departments slated for the new spaces already have strong ties to the community with programs such as the Free Clinic in Counselor Education and tutoring internships in Education and Child Care.

The reuse and redesign of existing buildings that housed K-12 classrooms previously is wise stewardship not only for the university but for the community. WSU will continue to be a top value choice and this addition to our small, landlocked campus will finally address the critical need for additional general learning spaces and specialized spaces for one of our largest programs -- education.

Project Rationale

In Minnesota and surrounding states, 72% of school districts report shortages of new graduates prepared to teach in Special Education, Sciences, Math, Technology, Foreign Languages and English as a second language. Nothing is more important to the future health of our communities than providing the finest teachers possible and encouraging and supporting those who are called to teach, coach, mentor, counsel and lead. Future teachers and their students will require more hands-on practical, early clinical, team and problem based learning. The College of Education and content areas has about 2,035 majors which is about 20% of the student body.

Other Considerations

The new space is critical to support the delivery of innovative curriculum that provides an extraordinary education for the preparation of teachers and school professionals. The renovated facilities will serve the faculty in four College of Education departments (Education, Special Education, Educational Leadership, Counselor Education) and the faculty involved in what are referred to as content-area teacher education programs such as STEM, Health, Art, Therapeutic Recreation, Outdoor Education, etc. Specialty spaces and sensible adjacencies will be equipped with the modern technologies, resources and equipment necessary for the preparation of tomorrow's teachers, counselors, coaches, mentors and educational leaders. Wabasha Hall currently houses the WSU Child Care Center, which will remain as an important part of the integrated approach which is referred to as the B-20 (Baby to Graduate) educational spectrum. The project will convert outdated space into flexible, high tech space that can be used in multiple ways, such as for adult learning, workforce training (including displaced workers), and corporate and partnership meetings. It is our intent that this comprehensive project will offer an integrated approach to continuing education, graduate programming, and collaborative partnerships between the university and the communities that it serves. Delaying this project will keep the affected College of Education units in unappealing, inflexible spaces that do not improve the recruitment, training or equipping of future faculty who will lead in transforming education in Minnesota. New education programs that are sorely needed will not be started. If there is no delay the Wabasha and Cathedral buildings will be transformed and made new, and the College of Education units that the project will house, those most important to the region today, will feel a spark of new talent, new ideas and a renewed spirit of innovation and commitment to excellence in education training.

Impact on Agency Operating Budgets

Description of Previous Appropriations

$5.9 million for design and Phase 1 of construction/renovation in 2014

Project Contact Person

Scott Ellinghuysen
Vice President of Finance and Administrative Services
507-457-5696
sellinghuysen@winona.edu

($ in thousands)

St. Cloud State University - Student Health and Academic Renovation

AT A GLANCE

2016 Request Amount:	$18,572
Priority Ranking:	10
Project Summary:	The project will renovate 43,291 sq. ft. in Eastman Hall and add a new 15,562 sq. ft. floor within its 2-story gym to co-locate academic and health related programs, creating a consolidated student health center and eliminating $3.8 million of deferred maintenance. Design for this project was funded in 2014.

Project Description

This project aligns to the MnSCU Strategic Framework through the following:

Ensure access to an extraordinary education for all Minnesotans by:

- Redesigning the classroom experience to support employer expectations that students will acquire interdisciplinary knowledge, critical and analytic reasoning skills and applied learning experiences to prepare them for dynamic workplace demands
- Creating an environment for academic and service integration that models and facilitates health, wellness, lifelong learning and development of the whole student
- Enhancing collaboration with St. Cloud Community and Technical College (SCTCC) for student services and experiential learning.

Enable us to be the partner of choice to meet Minnesota's workforce and community needs by:

- Accommodating the documented demand for university graduates in health related fields
- Integrating experiential learning environments (e.g., Kinesiology, Counseling, Nursing, Chemical Dependency) so that our graduates are cross-trained in multiple disciplines
- Strengthen ties with our professional and medical communities

Deliver to students, employers, communities and taxpayers the highest value and most affordable option by:

- Eliminating deferred maintenance of $3.8 million
- Increasing opportunities for academic and student services collaboration by designing multipurpose, experiential learning spaces
- Providing free or low cost health related services to students
- Replacing existing systems with significantly more energy efficient systems (HVAC, windows, etc.)

Project Rationale

This project is needed to bring together SCSU's team of health care providers and related academic units. Co-locating Student Health Services, Counseling and Psychological Services (CAPS), U-Choose and the Recovery Community will coordinate delivery of student health services, increase access for SCSU and SCTCC students, and reduce stigma for seeking mental health services. Annually, SHS has 16,000 visits, CAPS has 3,600 visits, and U-Choose and RC outreach impacts 8,000 students. Moreover, the 2,630 majors in the School of Health and Human Services will benefit from interdisciplinary experiential learning spaces. These synergistic spaces will address changing student demographics and the future landscape of health care and workplace demands.

Other Considerations

Our commitment is to support sustainability and stewardship of place by repurposing an unused historic facility highlighting its location on the Mississippi River. Thoughtful renovation of Eastman will embrace the river and support a new tradition of engagement with and respect for the natural environment of the university in keeping with the university's Climate Commitment. This project will be done in collaboration with the city of St. Cloud as it continues its comprehensive planning process, which includes consideration of the Mississippi.

Describe the steps the campus took to maximize its on campus space and room utilization to meet this need.

- The project will repurpose existing and unusable space
- Eastman Hall is located on the central part of campus and various units within the School of Health and Human Services are nearby. This proximity will facilitate the blending of classroom learning with experiential learning.
- Service to students will be improved by the co-location and coordination of Student Health Services, Counseling and Psychological Services, U-Choose and the Recovery Community
- Upon completion, spaces vacated by these units will provide needed space for classrooms and meetings and repurposed space for Residential Life

Explain the reason why a short term leased location would not solve this space need.

- Short term leasing would create new costs while not addressing the need to eliminate deferred maintenance of $3.8 million

Describe the consequences of delayed funding.

- Delayed funding will lead to cost increases
- National accreditation surveyors have found the current Student Health Services facility to be inadequate, leading to partially compliant ratings in several areas. By the next accreditation site visit in 2016, it will be important that progress has been made toward an improved space for SHS
- Delay will prevent optimal interdisciplinary preparation of our students for the work force

Impact on Agency Operating Budgets

Description of Previous Appropriations

$865,000 for Design fees funded in 2014

Project Contact Person

John Frischmann
Facilities Director
320-308-2522
jmfrischmann@stcloudstate.edu

($ in thousands)

Minnesota State University, Mankato - Clinical Sciences Phase 2, Design and Renovation

AT A GLANCE

2016 Request Amount:	$6,525
Priority Ranking:	11
Project Summary:	This project will renovate and renew 21,744 square feet of space in five different buildings to repurpose space recently vacated by programs moving into the new Clinical Sciences building funded in the 2014 bonding bill.

Project Description

This request is Phase 2 of the 2014 Clinical Sciences Building to renovate existing facilities of the College of Allied Health and Nursing vacated by the clinics and departments moving into the new building. The project benefits 5 different departments in 3 different divisions on campus. Planning for the project was done in a collaborative manner in alignment with the campus Strategic and Facilities Master Plan. Departments impacted by the project include Family Consumer Science (FCS), Intensive English Language Institute (IELI), Instructional Technology, Nursing, and Psychology. Work in Wiecking Center for FCS includes remodeled food labs, classrooms and HVAC upgrades. A new collaborative learning lab will improve the physical, psychological, and social learning context of the department greatly with new equipment and technology in the hands-on learning environments. Project enhances the new Wellness Graduate level degree (new interdisciplinary program offered through FCS, Health Science and Human Performance in College of Allied Health and Nursing) and new 2 + 2 degree program in Food Science with Riverland Community Colleges. New collaboration space will lead to greater student satisfaction and success completing the program at MSU. The Intensive English Language Institute (IELI) represents a crucial component of the University's current strategic priorities (2010-2015) priority 1, goal 2c.- Establish an English Language Institute. IELI is for students with English as a second language and score 45-60 on the TOEFL. Those completing the IELI and TOEFL 61 are then admitted to the university. International student enrollment was up 10% in Academic Year 2013-14 and increased 14% this fall to 1067 students. IELI enrollments have more than doubled in the past 12 months and expected to continue to rise from 49 to 100-150 in the coming years. The University's portfolio of international partnerships includes agreements with 39 foreign universities.

Project Rationale

This request is Phase 2 of a two phase project for a new Clinical Sciences Building supporting health services programs in the College of Allied Health and Nursing. Space being vacated by departments and functions moving into the new building are clinics and treatment rooms that would not serve any useful purpose unless renovated. The consolidation of the Psychology department will eliminate the need to lease off-campus space and eliminate inefficiencies of faculty being scattered in several locations across campus. Programs directly impacted have over 1900 students enrolled and further benefiting the entire campus with the addition of flexible instruction classroom space at Morris Hall. Replace a worn out 27 yr old roof at Wissink Hall.

Other Considerations

A videography studio for online courses is part of the Morris Hall renovation for Instructional Technology. Existing Sim space in Wissink Hall will be renovated into instructional and collaborative learning space including telepresence technology. The college has partnerships with the Northeast Higher Education District to offer the completion of the baccalaureate and graduate nursing programs with the Iron Range sites. The telepresence classroom will improve instruction and participation across sites. Enrollment growth remains strong with 965 declared majors last academic year despite declines in other areas. Workforce needs remain strong with statistics showing the need for 14,183 new nurses by 2017. The Armstrong Hall portion of the project benefits Psychology undergraduate and graduate programs including Clinical Psychology, Industrial Organizational Psychology, and School Psychology. Students are better served by allowing them access to advising as the psychology faculty are moved together in one building from three separate locations. The Psychology programs have experienced a 23% growth in declared majors over the last five years with 665 enrolled students in the 2013-14 academic year. This project includes research space for Psychology undergraduate students in the Industrial/Organizational masters program. These students to do major consulting projects with business and governmental agencies. School Psychology doctoral students and Clinical Psychology master students perform assessment interviewing and testing with supervision of their professors. MSU Mankato as part of 16B.32 ENERGY USE statutes and our campus sustainability goals will provide and install solar photovoltaic panels on the new Clinical Sciences Building. Roof is designed the solar ready for this 2016 installation. We expect to generate 22,500 kWh of energy with the 15kW array and save the campus $1,600 to $2,250 per year on utility costs.

Impact on Agency Operating Budgets

Description of Previous Appropriations

$2 million design 2012, $26 million construction 2014

Project Contact Person

Ron Fields
AVP Facilities Mangement
507-389-2267
ron.fields@mnsu.edu

($ in thousands)

Anoka-Ramsey Community College - Nursing &Active Learning Center Design and Humanities Renovation

AT A GLANCE

2016 Request Amount:	$4,965
Priority Ranking:	12
Project Summary:	Phase One of this multi-phase project will address student needs through design of a new Nursing and Active Learning Center that will replace the business-nursing building and extension and create a new front entry and approach driveways. Phase One will also renovate approximately 23,328 sq. ft. in the existing humanities building to modernize seven classrooms and create highly flexible learning spaces.

Project Description

This request is Phase One of a three-phase project. The initial request is for design of a new Nursing and Active Learning Center and renovation of the existing 1960s-era Humanities building. The renovation will update and modernize the building to provide highly flexible learning spaces. Phase 2 of the project will demolish the existing BN Extension Building and construct the new Nursing and Active Learning Center. Phase 2 involves nearly all academic areas of the college and will address the growing needs of STEM, Nursing, Humanities, Social Sciences, and Business through modernized and flexible classrooms. Phase 3 of the project will include demolition of the existing Business Nursing building and construction of the new front entry to the campus along with a new approach road and drop off area. At completion the project will create a welcoming space with a sense of reception created by moving student services to a centralized entrance. This new collegial space will bring together the stand-alone structures to create one seamless campus structure. Overall the project reduces the actual number of classrooms from 36 to 23 replacing non-functional classrooms with those that are an ideal size for academic needs and allow for efficient and diverse use. The college has the largest ADN program in Minnesota yet it has sub-standard classroom, laboratory and simulation spaces for this essential program. Redesigning the nursing classrooms and labs is required to keep pace with growing workforce demands and the expansion of the MANE curriculum. Currently the Nursing program is capped at 32 students, approximately 16% of qualified applicants. Sixteen additional students (two additional cohorts or annual 18 FTE) can be enrolled with facilities that can accommodate an increased enrollment. This project directly allows expansion of the nursing program to meet workforce projections.

Project Rationale

This project will demolish antiquated and obsolete space and renovate and construct new space to provide centralized student services and modernized flexible classrooms. The project will create new Nursing labs and learning spaces that support current student demand and anticipated demand in both the ADN and BSN levels for the MANE curriculum. Through redesign of the space, the college will establish a welcoming front door and surround this collegial space with student services to welcome and support all students. The project is planned to occur in three phases to allow for reasonably-sized funding requests and adequate balancing of college resources.

Other Considerations

Currently, the college limits the enrollment size of the nursing program to comply with physical space limitations and lack of clinical placements. By modernizing the nursing area and creating state of the art simulations opportunities, enrollment will be increased and the college will better serve the students and community. Leasing opportunities are not viable as much of this renovated space will incorporate highly customized simulation labs and learning environments--spaces that are unique and critical to the programs success. Additionally, baccalaureate-granting institutions (Metro State University as a MANE partner, and Bemidji State University) are committed to using the space. Establishing enhanced collegial space for a student-centric environment is also something that the campus has lacked since its inception. Creating a warm, hospitable, welcoming gateway onto campus has been included in campus master planning work for the past twenty years but has failed to be realized because of funding. The goals of this project, including improved wayfinding, diverse classroom spaces and added collegial spaces, cannot be met with alternative spaces. The disjointed manner that such services and wayfinding is currently provided leaves many current and potential students confused and ambivalent to attending the college. Moving this project forward at this time is crucial in order to meet the demands of the market, to attract students in a growing educational competitive environment, and to effectively provide programs of excellence that maximize value and investments.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Don Lewis
Vice President for Administration and Finance
763-433-1116
donald.lewis@anokaramsey.edu

($ in thousands)

Century College, East Campus - Applied Technology Center

AT A GLANCE

2016 Request Amount:	$5,500
Priority Ranking:	13
Project Summary:	This project on the east campus involves the design and renovation of 10,600 sq. ft. and renewal of 4,000 sq. ft. plus an additional 4,000 sq. ft. floor extension to create an Engineering and Applied Technology Center that will offer flexible classroom and lab space for STEM and related programs. The project will add adjacent learning commons and flex labs to support continuing education and customized training.

Project Description

This project aligns priorities by advancing the college's Master Plan top priority. It targets state priorities by developing STEM, manufacturing, technology, and engineering space. The project meets long-term space requirements by expanding university partnerships and develop new ones. It improves access/success for underrepresented students by creating a learning commons, coordinating study space near faculty and support offices, and giving students access to individualized learning and advising. The project will create a learning commons to offer students access to collaborative, group learning. Classrooms, faculty offices, tutoring, and study space will be organized to increase faculty/ student and student/student interaction. This project also addresses workforce needs through the CECT presence. Classroom and lab dedicated to training for advanced manufacturing and applied technology for NE metro businesses. Develops space to support and enhance STEM programs in Engineering, Comp. Sci. and Math.

Promotes retention, completion, and transfer: many Engineering students transfer to baccalaureate programs. Improves support services with learning commons. Produces space for applied learning: increases Digital Fabrication Lab access to more departments and workforce partners.

Options with costs over $11 million were considered. The final option reduced scope and cost. Advances cooperation among campuses by renovating space to expand existing university partnerships and develop new partnerships. Prioritizes renovation and re-purposed space to improve space utilization. Reduces deferred maintenance by improving HVAC. Builds in flexible features: classrooms for various programs and leverages existing flex classrooms. Minimizes need for new utility/support infrastructure by replacing original mechanical systems and increasing their efficiency. Additional operating costs proportionally borne by District 916 (through Joint Powers Agreement), decreasing operating costs.

Project Rationale

This project will establish a strong presence for STEM. It will also increase enrollment and retention while leveraging existing space and programs to address STEM needs. Business partnerships will be built to address workforce needs. The project will also reorganize welding and makers' lab space.

It will expand university partnerships and reduce deferred maintenance.

Other Considerations

When we were considering a larger project that included the first floor, we assessed the feasibility of moving the automotive programs (either 916's or the college's) to leased space (a vacant Kmart near campus), but could not cover the lease costs. The programs we considered moving as part of this project have a lot of equipment. Moving the equipment to a temporary space would be cost prohibitive. The new space integrates existing space and would not make sense to lease. Without the new space, we will be acutely hindered in our ability to deliver up-to-date high demand STEM programs. Century College is leveraging existing programs to expand and create new STEM programs to address critical workforce needs. New and updated facilities are required to deliver the type of education and training demanded by local businesses, especially in manufacturing and other STEM-related fields. The current space is not adequate to expand the programs. We are primarily renovating and reorganizing existing space to address these needs.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Pat Opatz
Vice President of Finance and Administration
651-779-3279
patrick.opatz@century.edu

($ in thousands)

Hennepin Technical College - Advanced Manufacturing Integration and Revitalization, Phase 1, Design and Renovation

AT A GLANCE

2016 Request Amount:	$8,231
Priority Ranking:	14
Project Summary:	This project will renovate/renew 25,530 sq. ft. at the Brooklyn Park campus. The purpose is to integrate manufacturing and engineering technology programs and revitalize 40 year old manufacturing labs and fund roof replacement.

Project Description

This important renovation will ensure access to an extraordinary education for all Minnesotans by:

- Removing physical/structural barriers in programmatically isolated lab and classroom spaces allowing the creation of an advanced manufacturing environment and a pedagogy that promotes exposure to, and experience with, a fully integrated continuum of manufacturing.
- Meeting industry needs for training in innovative learning spaces which advance opportunities for students to receive the highest quality, industry-relevant education.

The project will help HTC be the partner of choice to meet Minnesota's workforce needs by:

- Recognizing that the NW metro area holds the largest concentration of manufacturing companies in the Twin Cities. The Brooklyn Park campus enjoys the largest manufacturing programs student FYE of any technical college in the state. Modernization at this location is key to addressing student demand and serving industry partners with access to current technology, automation, and processes relevant to advanced modern manufacturing, and to stay current in the development of customized training programs for businesses
- Modernizing spaces will provide innovative and flexible manufacturing instruction spaces modeled after industry, allowing business to partner in the development of curriculum to best serve evolving workforce needs
- Showcasing advanced manufacturing technologies in such a way as to sustain current partners and attract new partners, promoting a sense of collective mission between higher education and the business community.

The project will deliver to students, employers, communities and taxpayers the highest value and most affordable option by:

- Sustaining high quality academic programs that continue to produce jobs for graduates;
- Providing highly functional, newly renovated technical lab spaces that contain forward-looking program spaces, while renovating existing spaces to remain relevant for high quality foundational learning.

Project Rationale

Advanced Manufacturing is the integration of technology based systems and processes in the production of products to the highest level of quality and in compliance with industry specific certification standards. The concept of design for HTC's advanced manufacturing space is to take advantage of the latest innovations in manufacturing and engineering processes; to ensure students are ready to become successfully employed in Advanced Manufacturing; to accommodate current and future space and functional needs not possible in the existing configuration; and to upgrade to the latest industry expectations that will build and strengthen connections with the business community and academic institutions.

Other Considerations

The Brooklyn Park campus space utilization (SU) is at 74% Spring 2014 - currently the highest SU in MnSCU. For FY2014, the combined enrollment of the 9 target programs for this project exceeded 23% of all FYE on the Brooklyn Park campus. Enrollment in Brooklyn Park manufacturing programs has continued to be consistently higher over the last 5 years. Companies continue to request HTC manufacturing graduates for large-scale openings.

Additionally, HTC's Customized Training services has increased the number of manufacturing business clients over the last 5 years and businesses often request that training be delivered in our manufacturing labs. Business industry expects that our training labs mirror the equipment, technology and workplace environment found in high-tech workplaces.

On June 24, 2011, President Obama announced a national effort to invest in emerging technologies to create high quality manufacturing jobs and enhance our global competitiveness. This concept also directly addresses the request voiced in the statewide MnSCU listening sessions conducted in 2012 with industry representatives who told us of their need for employees trained in advanced-high technology manufacturing processes. The Advanced Manufacturing Integration and Revitalization project is a partnership with industry aimed at providing workers who are skilled in the latest design and manufacturing processes, thus reducing costs, improving quality and accelerating the product development necessary to keep Minnesota globally competitive.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Craig Erickson
Vice President of Administrative Services
763-488-2518
craig.erickson@hennepintech.edu

($ in thousands)

Normandale Community College - Classroom and Student Services Renovation, Design

AT A GLANCE

2016 Request Amount:	$1,100
Priority Ranking:	15
Project Summary:	This project renovates 6 classrooms in the College Services building, corrects ADA compliance items and reorganizes student support services. The 51,000 sq. ft. renovation will serve all 9,427 students and improve classrooms for 35 departments that use the building.

Project Description

The project seeks to improve the classroom building where 30% of the campus classroom academic space is located. The facility requires updating to reflect current instructional techniques, student interaction and technology. Existing classrooms are inflexible (tiered floors) and have outdated technology. Normandale enrollment increased over 55% the last 13 years (1996 is the most recent addition to College Services), and nearly all of the 9,427 students have taken at least one class in this building.

The student services renovation supports Normandale's Strategic Plan for "Integrated Support". The project creates a space that allows comprehensive evaluation of student progress and an ability to provide targeted support and supports student persistence and completion. The prominent location within the academic zone would heighten awareness of services and programs which would assist in increasing participation of underrepresented populations. Increasing the space available for the Veteran's Resource Center, Diversity Center, and Experiential Education supports this access.

Space will be structured as multifunctional so small spaces serve purposes for conference rooms, seminars, student and group study rooms. The larger rooms will be structured so that they can be easily reconfigured based on the need--active learning classrooms, presentations, or other functions. The project creates five new student study spaces that will also support on-campus interview space for businesses and the local workforce center. External entities that currently work with these programs would have space available on campus, increasing access to a broader audience of students.

Centralizing the student support services will provide collaborative support for Normandale students and our partners' students, Metropolitan State University and Minnesota State University, Mankato. In addition, this project will address the deferred maintenance items in the building that has some of the highest FCI on campus, ranging from 0.20 to 0.30.

Project Rationale

The project will improve the experience for first-generation college students, increase retention and assist students in achieving their educational goals. Creating a centralized Student Service Hub will simplify the academic support process and allow staff more time to deal with student issues. Renovating classrooms will remove tiered classrooms that limit Active Learning. This request represents Phase 1 funding for the design and renovation of the 1st floor College Services building and site improvements that address ADA compliance and storm water management. Funding both

phases will result in improvements to 32 classrooms, a math lab, an open computer lab, the tutoring center, related support spaces and removal of over $10.2 million in deferred maintenance.

Other Considerations

The project identified a number of space and staff efficiencies that could be gained in Student Services with a collaborative approach and new central hub for work. The classroom renovation eliminates unused A/V spaces and underutilized circulation and corrects the existing technology systems that have light and acoustic 'bleed' between classrooms. Leaving existing classrooms will not address the issues with inflexible tiered classrooms, wasted square footage for old technology, undersized classrooms for current class size needs and creating space for community use.

The Normandale Campus Room Assessment noted half of the classrooms needing immediate attention or attention in the next 2 years. The combined current deferred maintenance backlog is $5.2 million and increases an additional $5 million by 2020. By not commencing Phase 1 of the project, these deferred maintenance items continue to accumulate and increase operational costs while not adequately maintaining the State's assets.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Lisa Wheeler
Vice President of Finance and Operations
952-358-8286
lisa.wheeler@normandale.edu

($ in thousands)

Minnesota State University Moorhead - Weld Hall Renovation, Design

AT A GLANCE

2016 Request Amount:	$775
Priority Ranking:	16
Project Summary:	This Phase 1 project will design the Weld Hall renovation that addresses deferred maintenance, improves pedagogy, and rightsizes classrooms. Weld Hall serves over 3,000 students in English, Music, Film, Theatre, Construction &Operations Management.

Project Description

This project will preserve the oldest and most distinguished building on campus and bring it into the 21st century with current codes, energy efficient building systems and state of the art teaching environments. The renovation will foster faculty-student engagement and promote interactive workshop style classes. The auditorium will create a multi-purpose auditorium/music performance venue for use as teaching lab, lecture hall, campus film and music performances and community/workforce training events. Adjustments from the 2012 Predesign plan are: Reduction in office space; adjusted mix of classroom sizes and types to increase space utilization; introduction of immersive tele-presence classroom to enhance online course, remote instruction and promote partnering with MnSCU institutions/community/workforce partners; provide flexible technology enriched learning studios to modernize curriculum delivery and provide for activity based learning and collaboration; and provide new accessible entry addition to create a public face adjacent to the street and convenient access for workforce training and community events.

Weld Hall is home to the English Department serving over 1,500 students per semester. The project will create space specifically designed to teach courses using innovative methods and will address the need for a 21st century digital humanities classroom center–one with a multi-use, scalable, collaborative and digitized learning environment. Collaboration, real-world application, and virtual literacy are essential skills for effective 21st century graduates entering a workforce increasingly centered in digital and virtual marketplaces of goods, services, and information.

Project Rationale

Weld Hall has some of the most significant deferred maintenance on the MSUM campus and this project will address those issues. The project will also create classrooms that will capitalize on new teaching methods, classroom discussion, technology use, and student-faculty engaged research and creative activity. Weld Hall auditorium will function essentially as a flexible laboratory space for film and music, while our publishing students will work closely with faculty in a high tech state of the art teaching and learning space. The proposal calls for realigning classroom sizes to better serve the variety of class sizes and pedagogical approaches of our faculty.

Other Considerations

Employers say that communication effectiveness, the ability to work in teams, and analytical/problem-solving are the most important skills of new employees. The English Department develops these skills

throughout their curriculum. Weld Auditorium, a primary space for Music students, will serve as a lab for students who are studying to be sound engineers. This project will enhance training for students to work in a state of the art performance hall and allow them to gain immediate, relevant employment. Weld Hall is also a venue for our Film Studies program. The Humphrey Institute noted the state's lack of educated talent in the film industry and called on educational institutions to produce more directors, producers, lead actors and screenwriters. A dedicated publishing lab space will prepare students for publishing occupations.

Efficiency will be maximized by increasing the number of multi-functional classrooms and reducing offices. Graduate seminars will use smaller rooms rather than large classrooms. Because demand exceeds inventory for large classrooms, a new 95-person classroom is created and will foster effective, instructional approaches. A rightsized auditorium will complement other auditoriums. The computer lab will allow for more effective critique sessions of student work and provide instruction in advanced features of software application. Students in Music Industry will be able to provide live sound support/recording in a state of the art auditorium. Each performance by our Music Department is recorded and audio production students turn those recordings into digitally mastered CDs and digital files for streaming. A delay in funding will cause deferred maintenance to grow exponentially and limit the university in providing an extraordinary education with the highest value/most affordable option.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Jean Hollaar
Vice President Finance and Administration
218-477-2070
jean.hollaar@mnstate.edu

($ in thousands)

Inver Hills Community College - Technology and Business Center Renovation, Design

AT A GLANCE

2016 Request Amount:	$1,000
Priority Ranking:	17
Project Summary:	This project will design the renovation of the Business Building and connection to Heritage Hall. The scope includes renovation of 31,000 sq. ft. and construction of a 2,000 sq. ft. addition/connection between the two buildings. The project will expand the learning space into unused building volume, create a link to Heritage Hall, improve access, and update classroom configurations.

Project Description

Advisory boards have clearly outlined their expectations in the Paralegal field that the classroom environment needs to simulate the work environment. Improves the ability, by way of proximity, to support existing four year baccalaureate partnerships in the business and accounting disciplines. The project includes spaces for partnership connections with CISCO Systems, a nationally recognized network computer corporation, STEM classrooms and laboratories as an extension of the labs in Heritage Hall. This project provides access to underserved students, students of color, high school students, and adult learners. It will ensure adequate and appropriate space for critical workforce ready skills, knowledge and abilities including mock interviewing, job shadowing, focus groups, and mentorships.

Inver Hills Community College is a partner in the Center of Excellence for Advance IT Minnesota. This new space will improve the regional and collaborative systemwide effort. The Center for Excellence includes Metropolitan State University, Inver Hills Community College, and Minneapolis Community and Technical College. Our current investment in R and R demonstrates our commitment to facility betterment. Our Composite Financial Index (currently 3.77) will significantly improve with a reduction in depreciation as well as an increase in capital assets. Our debt ratio is currently not negatively impacting our financial position and this project has little impact on long term debt.

Project Rationale

This project is part of a concerted effort to focus on work force needs, existing partnerships and STEM education: 2,800 students are served in these programs. This project aligns academic pathways between college and four year baccalaureate programs both in business and accounting. It combines facility support for combining the strengths of existing Heritage Hall STEM programs with computer networking technology programs. This project expands opportunities across disciplines for degree or certification in the paralegal, STEM, business and accounting programs. The paralegal program is the only partial online/hybrid approved paralegal program in Minnesota; classrooms that are technology rich and accessible are essential for continued accreditation. This project improves the ability, by way of proximity, to support existing four year baccalaureate partnerships in business and accounting disciplines.

Other Considerations

Improve space utilization by creating appropriately-sized “smart” classrooms to optimize class size and curriculum delivery. Having appropriately-sized rooms increases our revenue per course section because we will be able to support our existing approved course tallies. We are able to have larger class sizes from an academic perspective, but due to the facility, we limit enrollment.

Consequences of Delayed Funding: Inadequate space for new and existing STEM program, limited upper division baccalaureate programs, current severe safety and access concerns will not be addressed, curtailed core Liberal Arts Offerings, delayed correction of severe health, safety &access concerns, and unmet incumbent workforce training needs.

Impact on Agency Operating Budgets

Description of Previous Appropriations

None

Project Contact Person

Andre Osvold
Interim Director of Facilities Planning and Management
651-450-3536

($ in thousands)

Riverland Community College, Albert Lea - Transportation, Trade and Industrial Education Center, Design, Construction and Renovation

AT A GLANCE

2016 Request Amount:	$7,427
Priority Ranking:	18
Project Summary:	This project will renovate 39,173 sq. ft., add 8,734 sq. ft. and demolish 7,488 sq. ft. to relocate Truck Driving and Collision Repair programs from Austin to Albert Lea integrating them into shared spaces with Auto and Diesel programs.

Project Description

While continuing to make strides updating curriculum and optimizing career ladders, significant barriers remain having related programs on different campuses and severely outdated equipment/facilities. Co-locating programs allows students to cross-train in real world scenarios. Industry partners require current training applicable in modern shops and collaboratively-trained workers. Increasing capacity will provide enough quality graduates at the level employers need.

This project aligns with the Department of Employment and Economic Development (DEED) initiative to supply workers in the transportation, construction, and energy fields. Further, cross-training personnel in related industries have been identified as a critical 21st century skill set. Without significant investment in infrastructure, the college may not meet the needs in these areas. Iowa colleges have continued investing and are directly competing with us for students while also luring companies to cross the border. It is getting increasingly difficult to compete with other colleges for students on 1990s equipment in 1970s facilities.

Perhaps the most compelling argument in support of this project is in whom we are investing. These programs are designed to serve underrepresented populations, including veterans and those returning to the workforce, with living wage jobs in highly desired programs. With a placement rate exceeding 97%, demand will continue to be extraordinarily high; we also need to ensure that our facilities allow training and the quality of the graduate we produce to be just as high.

Project Rationale

The Albert Lea campus has not been significantly updated since the early 1970s. A huge maintenance backlog exists, and having related programs on separate campuses is inefficient. Industry partners are concerned about students training on equipment in shops decades out of date. Our ability to meet workforce needs will stagnate or decline without a facility upgrade investment. The project would improve 39,173 sq. ft. of existing space, add 8,734 sq. ft. of shop space, including two levels of infill. Collision Repair and Truck Driving would move from the Austin campus to the Albert Lea campus to share resources with Diesel/Auto Service, and the Industrial Maintenance program would expand and share with Construction Electrician and Alternative Energy programs.

Other Considerations

The 2012 Transportation Center Predesign still applies but includes moving Collision Repair along with Truck Driving to align with Diesel Service and the Auto Service programs for greater efficiency and provides the cross-training opportunities demanded by industry. This includes shared space for common tools and parts areas, computer labs, classrooms, faculty offices, and new vehicle wash bay. This predesign update improves layout efficiency and provides alignment in the trades areas. Students with real-world experiences and collaborative training are better prepared for this workplace reality. The college is dedicated to maximizing space through efficiencies in consolidation and adjacencies. Delaying targeted funding would prolong workforce shortages and increase operation and maintenance costs addressed through this project. Because of the 2014 HEAPR HVAC allocation funds these costs are removed from the earlier predesign.

Approximately 2,035 sq. ft. is unusable on the lower level due to accessibility problems and water infiltration. Circulation realignment permits direct access from the elevator and stairs to lower level student spaces. By adding capacity and creating a more visible entrance to the Transportation, Trade, and Industrial Education Center, we create a facility with a modern, collegiate image which will impact enrollment and increase industry support. These two factors, combined with new technology in the facility, provide value, increase efficiency, and maintain affordability. Potential examples include examining how battery storage training will benefit Wind and Solar programs as well as Auto Service as it relates to electric cars. Existing welding training clearly would benefit Collision Repair as well as Industrial Maintenance and Auto Service. Locating instructor offices out of the shops better utilizes the expensive high bay spaces and creates common use spaces to be shared between programs.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Brad Doss
Chief Financial Officer
507-433-0523
brad.doss@riverland.edu

($ in thousands)

St. Cloud Technical and Community College - Classroom Initiative

AT A GLANCE

2016 Request Amount:	$625
Priority Ranking:	19
Project Summary:	This is a classroom renovation project to design and create three large multi-functional classrooms and an art classroom within the existing campus footprint. The 9,566 sq. ft. project will serve over 2,000 students taking Liberal Arts and prerequisite courses annually.

Project Description

This project will renovate approximately 10,000 sq. ft. of space that was used as Surgical Technology and Dental labs. Much of this space cannot be used as it is and, for a relatively small investment per square foot, the space can be renovated to create four large classrooms allowing the college to increase class sizes for high demand Liberal Arts courses. In addition to increasing student access to classes that fill quickly, the larger classrooms will accommodate modular furnishings to create an interactive learning environment that will engage students in active learning and will enhance access to an extraordinary education.

The larger classrooms will be designed for flexible use. Students will have the ability to attractively display their artwork and hold art shows. Music faculty will be able to include performances in their classroom without disrupting classes around them. The classrooms will be spacious enough to provide the ability to host speakers or performances for small groups. The college currently has limited space to host such events and frequently closes half of the student commons to hold student and community activities. The renovation would provide the ability to further engage the community in college activities.

This project provides excellent value for a small investment per square foot. Much of the current space cannot be used, as it was built specifically as instructional lab space for health programs and it has served only as storage since completion of the Health Sciences Building. Creating four large multi-purpose classrooms from this space is relatively inexpensive with the potential for a significant return on investment. This will be accomplished through the ability to hold larger classes in a more efficient manner, utilize space that is sitting vacant, address approximately $150,000 of deferred maintenance, improve student learning through interactive classrooms, and enhance access to classrooms and student advising offices.

Project Rationale

SCTCC will complete the architectural design with college funds so the project will be "shovel ready" upon funding. The existing space includes two small, makeshift classrooms inadequate for instruction, office space that was creatively pieced together from a vacated dental reception area, and vacated dental labs and locker rooms that can currently only be used for storage. SCTCC currently has a very limited number of classrooms that are able to accommodate class sizes in excess of 35 students.

The creation of large, multi-functional classrooms from non-functional space will provide the

opportunity to hold larger classes in an active learning environment using a variety of instructional pedagogies facilitated by the classroom design and modular furnishings.

Other Considerations

SCTCC plans to use college funding to complete the design so construction can begin once bonding funds are received. The college also plans to fund classroom furniture from college funds and to leverage Foundation funding. Using college funds is important to ensure that the renovation is completed within an academic year. Existing classrooms place physical constraints on class size and it's often challenging to utilize many current classrooms effectively and efficiently due to limitations in physical space and/or design. This is especially true in the proposed renovation area where there's no ability to use the old labs, and the existing classrooms were designed many years ago as dedicated health classrooms with limited capacity due to the low student to faculty ratio per accreditation standards.

This project serves as an efficient means to utilize space that cannot currently be used, rightsize space that is not currently efficient or effective for use, and enhance student access, learning, and community engagement through classrooms designed to serve many different functions. Leasing this type of space would not be cost effective as compared to renovation when considering the existing campus location, the number of rooms and intended use, and the length of use. The cost per square foot to renovate the existing space provides a better return on investment than leasing the space.

If funding were to be delayed for this project, space would continue to be unused, efficiencies in space utilization would not be realized in this area, more classes would continue to be offered at lower class sizes due to physical space constraints and efficiencies in instructional costs would not be realized. In addition, more traditional instructional methods would continue due to the lack of space for modular furnishings and the space needed to establish interactive learning environments.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Lori Kloos
Vice President of Administration
320-308-5026
lkloos@sctcc.edu

($ in thousands)

Minneapolis Community and Technical College - Hennepin Skyway, Design and Renovation

AT A GLANCE

2016 Request Amount:	$4,469
Priority Ranking:	20
Project Summary:	This project seeks funding to design and renovate the Hennepin Avenue Skyway that serves as the primary connector between the parking ramp and campus buildings. This work will reclad, remodel and repair the 3,350 sq. ft. skyway, which has suffered serious deterioration as well as a need for internal improvements for social and collaborative space. The skyway serves approximately two-thirds of the 13,800 student population on a daily basis. Hennepin Avenue has an average daily car count of between 13,000-14,000 traveling beneath the skyway.

Project Description

Minneapolis Community and Technical College Hennepin Skyway has existing 30 year old metal panel cladding and window systems. The metal panel cladding joints are failing in the panel to panel locations, as well as windows. Deteriorating sealant joints have allowed moisture infiltration behind the panel system, creating the potential for damage to the structure concealed behind the panels (some already observed), and contributing to energy loss. The roofing system is also approximately 30 years old and in need of replacement.

The project creates space for students to experience student life in this urban campus. New social and collaborative spaces are a means to visually connect campus life into the community. The city gains a window into the campus to represent college vitality in a safe environment.

The project would create welcoming and functional space to enhance continual learning. Current program offerings are enhanced by improving the campus gateway. Spaces within the Hennepin Skyway are intended to be flexible for rearrangement meeting multifunctional activities.

MCTC serves the most diverse population in the MnSCU system. Providing spaces for interaction and collaboration displays the campus commitment to social and cultural accommodation. Recladding and creating student interaction space provides the best value for asset preservation while serving their population.

Project Rationale

Hennepin Avenue Skyway is both the main entry to the campus from the parking ramp, as well as a primary visual gateway into the city from the south. This existing skyway is approximately 30 feet wide, and offers opportunities to reclaim some of this circulation space to be utilized as social and collaborative space for students. Student activities can be viewed from the street - connecting students to both the city above Hennepin Avenue, as well as to each other. The recladding and remodeling project will significantly increase the views and daylight available to this connection, enhancing connections to the MCTC campus and Hennepin Avenue.

Other Considerations

MCTC evaluated two options for repairing the exterior skin of the skyway structure. The first option was to repair the existing 30 year old cladding and window systems, and the second was to replace these systems with new metal panels and windows.

Water infiltration in the skyways is significant, creating opportunities for further degradation of the structure and finishes on the interior. Indoor Air Quality could be compromised with opportunities for mold growth if not corrected.

Energy loss is an ongoing cost to the college with air leakage contributing. The roofing on the skyways is in backlog with over 30 years in service.

Skyway projects present unique construction challenges with elevated construction and, in the case of the Hennepin Skyway, limited construction access. Delayed renovations would increase construction costs.

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Roger Broz
Director of Facilities
612-659-6805
roger.broz@minneapolis.edu

($ in thousands)

Twin Cities Baccalaureate Access

AT A GLANCE

2016 Request Amount:	$10,000
Priority Ranking:	21
Project Summary:	This project will fund the design and renovation or construction of space within the Twin Cities to enhance access to baccalaureate degree completion programs.

Project Description

The project will be the first step in a multi-step approach to address delivery of higher education within the Twin Cities metropolitan area to respond to growing baccalaureate degree needs. Some fundamental challenges:

- the demand for baccalaureate degree holders is expected to grow in the Twin Cities, and our current arrangements may not be optimal to meet the expected need
- the system serves students who have been traditionally underrepresented in higher education or who have location constraints
- the system loses a number of transfer-minded students who complete their associate's degree without a compelling option to continue within the system for a baccalaureate degree

To address the challenges, the system is refining program interests and evaluating student market assumptions. Current campus capacity will be evaluated to address the criteria, and system funds are being used to initiate a predesign. Based on the predesign work, the system will seek funds to design and implement the solution recommended.

Project Rationale

The system seeks to respond to growing demand in the Twin Cities metropolitan area for individuals seeking baccalaureate degrees. State forecasts suggest an expected demographic and workforce change that will require a substantial increase in the availability of baccalaureate degree holders. The forecast is that:

- Over the next three decades, the Twin Cities area population is expected to increase by nearly 1 million people, creating an incremental 570,000 jobs
- 421,800 of these incremental jobs will need to be filled with employees who hold a post secondary credential
- 216,805 of these incremental jobs will need to be filled with employees who hold a baccalaureate degree

Other Considerations

(Note: Preliminary project work is ongoing, but did not align with the initial capital budget process deadlines.)

Impact on Agency Operating Budgets

Description of Previous Appropriations

Project Contact Person

Brian Yolitz
Associate Vice Chancellor for Facilities
651-201-1777
brian.yolitz@so.mnscu.edu