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	$ 300	$ 0	$ 0
Total Project Requests			$ 254,459	$ 71,975	$ 29,917
General Obligation Bonds (GO) Total			$ 254,459	$ 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

Minnesota State Colleges and Universities (MnSCU) is seeking $110 million in Higher Education Asset Preservation and Replacement (HEAPR) funding for repair and replacement of its major building systems. The 2016 HEAPR request consists of approximately 54% for exterior updates (roofs, walls and other exterior components), 26% for HVAC and 20% for life, health and safety features and code compliance.

Minnesota State Colleges and Universities forecasts $745 million is needed today to catch up to bring building systems out of backlog status for our academic buildings. This represents a Facilities Condition Index of 0.10 or put another way - 10% of building systems are in backlog status.

The system regularly invests between $32-$35 million a year in regular repair and maintenance, and spends another $32-$36 million for energy costs on an annual basis. HEAPR and capital projects are the primary financial means used to update building systems and reduce overall operating and maintenance costs

Project Rationale

- HEAPR funding ensures that campus operating dollars are used to improve educational outcomes, not repairing buildings
- HEAPR projects keep students safe, warm and dry
- HEAPR reduces total cost of ownership costs for the system
- HEAPR reduces the system's long term deferred maintenance outlook (currently forecast at $1.64 billion in the next 10 years)
- HEAPR meets the state and the system objective of creating sustainable buildings

Other Considerations

MnSCU is an active participant in the Department of Commerce Guaranteed Energy Savings Program (GESP). The MnSCU Board of Trustees recently authorized up to $14 million worth of GESP projects at two campus locations. MnSCU has another 3-5 additional campuses that are evaluating their campuses for participation in GESP.

Impact on Agency Operating Budgets

Every HEAPR project will have a positive impact on reducing campus operating costs either through reducing energy consumption or minimizing the need to repair and maintain failing building systems.

Description of Previous Appropriations

$42.5 million in 2014 Capital Bonding Bill

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($ 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 renovates 90,890 sq. ft. of healthcare, manufacturing, agribusiness, science and computer lab and classroom spaces on the North Mankato campus. Approximately 47,700 sq. ft. will be renewed by removing asbestos, upgrading HVAC systems and replacing portions of old roof. More than $2.9 million of deferred maintenance will be removed by this project. The result of these efforts 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

South Central Minnesota has been identified as a geographic hub for Healthcare, Manufacturing and Agribusiness. All of the improvements in this project will directly target South Central College's programs in these industries and related areas. These programs require lab spaces equipped with the latest technology; however, 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. This project also relocates TRiO offices near the advising center and Veterans Resource Center to support the academic success of underrepresented students.

Project Rationale

SCC implements programs based on current workforce demand and the needs of our industry and community partners. In order to meet these needs, the programs served by this project require up-to-date lab and classroom spaces. If these spaces are not updated, SCC will not be able to offer students an extraordinary (or even relevant) education in these programs. By situating classrooms, labs, and faculty offices for related programs in the same physical area, this project will allow students to interact with others in similar fields of study. The flexible, multipurpose labs resulting from this project 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. Several of the affected programs have degrees that articulate to four-year universities, and an improved learning experience for students in these programs will also help increase these transfer rates.

SCC uses ITV technology to connect campuses and decrease course delivery costs. Students and faculty also use this technology 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, such as Southwest Minnesota State. This project adds new ITV technology in the manufacturing lab, allowing students to connect to their peers in labs across the United States.

Other Considerations

SCC has found space within its existing footprint to renovate instead of creating additional space,

recognizing that the campus's space utilization favors renovation over addition. The college at one time sought out leased space; however, the remodeling and updating that the space would require makes leasing an impractical solution at this time.

SCC realizes that the North Mankato campus's current overall square footage is adequate, but the spaces must be renovated to meet today's standards. SCC has made a substantial effort to secure external funding for program initiatives; since FY09, the college has brought in more than $10 million in external grants. These grants come with restrictions that 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 like capital bonding.

A delay in funding would keep several classrooms, labs and systems at the 1968 levels, keep the TRiO offices isolated from other student services, and delay the Veterans Resource Center expansion. This would have a direct impact on the student achievement gap and regional workforce needs.

Impact on Agency Operating Budgets

The college will save significantly on utility costs through the replacement of all four of the building's air handlers (three units are 1968 models and one is a 1987 model). Increased energy costs associated with the new science lab hoods will be offset by the energy savings from new HVAC units.

Description of Previous Appropriations

None

Project Contact Person

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($ 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 space, and classroom space, creating a new Center for Student and Workforce Success (CSWS) that integrates the Regional Workforce Center. The project also will 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 will provide donations to cover $750,000 of the total project cost of $1.728 million.

Project Description

This project establishes space for a collaborative CSWS on the Fergus Falls campus. 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 education and employment options, better fulfilling the mission of each organization.

The CSWS updates and repurposes existing library, meeting and classroom spaces that are currently underutilized and in need of finish and equipment upgrades, as the spaces have not been renovated since the early 1970s. Renovation for the CSWS displaces two classrooms and a meeting room; most of this renovated space will be leased to the collaborating partner agencies which will operate on the campus and generate revenue for the college on a long-term basis.

Project Rationale

This project expands access to an extraordinary education for all Minnesotans by offering services for students and residents of the region through the CSWS. 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 M State students and community members who are training, retraining, unemployed or under-employed, and it will positively impact the college's retention and completion through job placement or transfer to a university.

The CSWS is based on a partnership between M State-Fergus Falls Campus and non-profit, state, and federal services, including the offices of DEED, Rural MN CEP, Veterans Employment Services, Vocational Rehabilitation Services, State Services for the Blind and Experience Works (Green Thumb). By co-locating these agencies, the CSWS will provide more efficient delivery of education and employment services to students and community members while creating greater synergy and collaboration among the partner agencies. As a result, students, workers and community members

will benefit from expanded access to education and employment options.

Other Considerations

This project converts underutilized space on the Fergus Falls campus 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.

If this project is not funded, the lack of the CSWS one stop shop would significantly reduce the campus's ability to upgrade service to students and citizens. In addition, campus space utilization would continue to be below desired levels. The modernization of this space is vital to the health and stability of the campus and the educational experiences for local students and local citizens.

Impact on Agency Operating Budgets

The project will have little to no impact on utilities and maintenance, as the project affects existing space. No academic or support staff changes are anticipated as a result of this project.

Description of Previous Appropriations

None

Project Contact Person

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($ 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 relocates the campus library to underutilized space, converts the space vacated by the library into a centralized student development center that will be much more accessible to students and the general public, and completes minor renovations to accommodate staff relocating from a Perham lease location. In total, the project will renovate 7,256 sq. ft.

Project Description

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 relocates the library to classrooms that had been taken offline after the 2010 tornado. The new central location for the student development center establishes a welcoming information desk and places student services close to the campus bookstore, foodservice, and student gathering space, greatly aiding student engagement and campus circulation while providing needed study space for individuals and groups in both the library and the student commons area.

Project Rationale

The Wadena campus has made significant strides in improving educational access, increasing student success, and supporting student persistence using current best practices to identify and intervene with at-risk students. Those efforts increased fall-to-spring persistence by 3% from FY11 to FY13, and fall-to-fall persistence increased by 6% over the same time period. An increasing percentage of students are Pell-eligible, with the number rising from 45.7% in 2012 to 97.4% this past fall. This population in need requires ample academic support services; to ensure access to an extraordinary education, the campus must find ways to make these services easy to obtain. This project contributes to this goal by providing a central location for the new student development center that gives greater visibility and accessibility to these support services.

The library renovation will create additional opportunities for students to learn collaboratively in a technologically modern facility. More than 600 students rely on the library as a place to study, research, and access computers and instructional materials for completing their homework. For the 2013-14 academic year, the monthly gate count ranged from 1,395 to 2,428 student visits. This project adds 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 and white board, giving students the opportunity to use the latest in educational delivery.

Other Considerations

The Wadena library also provides proctored testing services for a large number of students taking online classes, which is an area of enrollment growth for the college. During the 2013-2014 academic year, approximately 300 students used the Wadena library for proctored testing services. This project includes a small testing room that will provide students with a significantly improved quiet and supportive testing atmosphere. The study rooms and the testing room will be a real benefit for students.

This project provides a better use for underutilized space and a more efficient student development setting. Ongoing efforts to improve student engagement with Student Development Services (SDS) are hampered by an unwelcoming facility layout; the majority of SDS staff are 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 in order to interact with students who otherwise have difficulties finding their way to advisors' offices. The efficiencies gained by clustering these student services will allow the campus to add new success initiatives.

This project also provides more accessible space for a Veteran's Center and a campus learning center. 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

Due to the nature of the remodeling project, the ongoing operating expenditures for the campus and the effects on operating staff will be unchanged. However, the project will provide space for employees currently officed in the Perham Service Center. This will allow the lease in Perham to be terminated, reducing overall college operating costs by approximately $15,000 annually.

Description of Previous Appropriations

None

Project Contact Person

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($ 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 renovates three science labs and one radiologic technology lab on the East Grand Forks campus, totaling approximately 5,204 sq. ft., to increase lab safety, improve ADA compliance, and update lab equipment. The renovated laboratories will provide students access to up-to-date technologies, helping them obtain jobs in the growing health care industry.

Project Description

This renovation corrects safety concerns in the science laboratories, including improperly vented fume hoods, a chemistry storage area that is only vented when the fume hoods are on, and poorly designed sinks that spill water on the floor. The project improves access to eyewash and emergency shower stations and improves the labs' ADA compliance.

The four renovated labs will have a total capacity of 80-100 students, meaning that approximately 600 students per year will benefit from safe, updated laboratory experiences. The science laboratories impacted by this project serve science courses that are part of the core curriculum for both practical and registered nursing programs, as well as ten allied health programs.

Project Rationale

Each of the renovations in this project will provide students with contemporary, state-of-the-art laboratory experiences that prepare them for transition to the workforce. These renovations will allow the campus to expand its programs in other STEM fields such as biological lab technician. The redesigned lab spaces will also improve interactions between students and faculty by allowing all students to see the instructor more clearly as lab activities are demonstrated or important topics are covered. Better engaged students are students that excel, which is really the measure of an extraordinary education experience.

The labs' existing design prevents new technologies from being fully used in the labs and prevents instructors from leaving the equipment out at all times; instead, instructors must wheel fragile and expensive equipment in and out of the lab. This renovation will incorporate new technologies in anatomy and physiology, including virtual cadavers--life-size touch screen counters that enable students to virtually dissect a human cadaver. These virtual cadavers will revolutionize the anatomy lab.

The redesign of the microbiology lab incorporates current molecular biology technologies and techniques, providing students with hands-on knowledge of many advanced concepts including DNA replication, gene structure, cell cloning, DNA sequencing, and genetic modification. In these new labs, student success will be enhanced by better integration between lecture topics and lab

demonstrations.

Local health care facilities recognize Northland's radiology program as a source of high quality graduates. Upgrading radiologic technology lab space and equipment is a critical step in helping the campus maintain this respected status. These updates will allow for better use of new digital equipment in a simulated clinical setting that will encourage group activities and teamwork simulations. Students will be able 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. New computer work stations in the lab will allow students to work on digital images with close supervision by the instructor while other students work on positioning and technique for exposures.

After these lab updates are complete, Northland will be able to increase the radiologic technology 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.

Renovations of the science laboratories will allow for higher enrollment in chemistry labs, increasing capacity from 18 to 24 students. A chemistry technician program may also be added in the future as a result of reconfiguring the labs. Repartitioning the Microbiology or Anatomy Lab spaces 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.

Census data shows that the aging population will create an increased need for quality health care professionals in the future. Northland's nursing and allied health programs strive to meet the demands of area healthcare providers in the region and support current as well as future needs. This project directly supports the programs that will meet those needs. These improvements not only increase the quality of student learning experience but also the effectiveness and efficiency of learning. More students will be better served in the same space.

Other Considerations

The safety issues and improvement of ADA compliance alone warrant remodeling the science labs. If funding for this project is delayed, our campus risks being left behind the tide of new technological advances in the sciences, hindering our ability to meet the workforce needs of the region. Industry growth in the sciences, including molecular biology, has increased significantly in recent years. This growth also affects the health care industry. Providing high quality training for science and health programs remains a priority for Northland, but the college's ability to provide these programs will be negatively impacted if this project is not funded.

Impact on Agency Operating Budgets

This project will have minimal impact on institutional operating expenses.

Description of Previous Appropriations

None

Project Contact Person

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($ 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:	This project replaces Hagg-Sauer Hall with a new 29,400 sq. ft. classroom building and renovates 73,410 sq. ft. of underutilized space in 5 other campus buildings in order to relocate 12 academic departments. Design for this project was provided in the 2014 bonding bill.

Project Description

This project achieves multiple goals in the university's strategic, academic, and facilities plans. BSU students will benefit from the improvements in their learning environments and by the creation of new "front doors" for several departments and disciplines. The project reduces campus footprint by 58,000 sq. ft., decreases the deferred maintenance backlog by more than $9 million, and improves 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. Its poor light levels and limited daylight, limited student gathering spaces, and inflexible classrooms create a compromised learning environment that is not conducive to student success.

Project Rationale

Almost all students at the university spend their first two years fulfilling their liberal education requirements, which means taking classes in Hagg-Sauer, the campus's main classroom building. Hagg-Sauer is currently set up to only accommodate lecture-based instruction, limiting flexibility for faculty. The faculty, located in small, private offices on the top floor of the building, are not easily accessible to students. This project benefits students by including flexible instructional space and labs and increasing the ability of faculty to provide more experiential opportunities for students and to reach a much broader range of learning styles. This reflects what we know about teaching and learning by complementing/simulating the workplace where people work in teams and integrate technology into everyday projects. Replacing classrooms and renovating 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 programs such as geography, computer science, and psychology will give students greater access to current technologies and provide the right type of space to work with community partners. Psychology, one of the more popular majors at BSU, is currently constrained by research labs that were built in the 1960s and 1970s. These types of research labs are outdated and the facilities are not flexible enough to accommodate new research technologies.

This project considerably improves the learning environment at BSU, affecting nearly every student. 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. Demolishing Hagg-Sauer and remodeling several other buildings will result in significant improvements to campus space utilization as well as reductions in energy consumption and operating costs. When complete, this project will reduce campus gross square feet by 58,000.

Other Considerations

After studying several alternatives, the university chose the design that ensures all academic programmatic needs will be met in a progressive fashion, improves the overall campus environment for our students, and meets BSU's goals of being more efficient and stronger stewards of our assets. This project, along with the Memorial and Decker Halls renovation project 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

By reducing campus square footage, this project decreases operating costs. The new square footage to be constructed will be smaller and more energy efficient than the square footage it replaces. Additionally, the remodeled spaces resulting from this project will reduce operating costs through more energy efficient building systems.

Description of Previous Appropriations

$1 million for design provided in the 2014 bonding bill.

Project Contact Person

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($ 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:	This project replaces approximately 38,000 sq. ft. of severely outdated classroom/office space with a 20,000 sq. ft. academic building expansion; renovates 11,190 sq. ft. of academic space; removes outdated daycare and maintenance shed space; and increases energy efficiency with the construction and installation of a new central chiller. The result is more efficient campus buildings with rightsized classrooms for current learning strategies.

Project Description

This project substantially reworks the Rochester Community and Technical College (RCTC) campus to accommodate collaborative/interactive learning, reduce facility backlog by $4.4 million, and rid the campus of obsolete space. The project creates and improves direct engagement between students and faculty, creating appropriately-sized and equipped classrooms supporting flexible scheduling. The project tackles key deferred maintenance issues plaguing the college, improves indoor air quality and energy efficiency, and reduces campus size by 18,000 sq. ft. by demolishing Plaza and Memorial Halls. This demolition will improve the campus facilities condition index from 0.16 to 0.04 and increases academic space utilization from 48% to 74%.

Project Rationale

As the largest public higher education provider in the fastest-growing city in Minnesota, RCTC serves more than 8,000 students a year in credit courses and 3,700 students in non-credit continuing and workforce education programs. This project provides flexible classroom formats necessary for all levels of education. The flexible spaces, different sizes and shapes of classrooms, and movable furniture are necessary for educating the 21st century learner. The college's holistic approach to serving the community will be improved by the renovated spaces included in this project, which will benefit numerous college and community programs.

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 100% 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.

More than 80% 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 enhances 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.

Other Considerations

This project's expected increase in space utilization was achieved by a process that 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 suggested a combination of renovation and new construction. This project provides functional and forward-looking educational facilities needed to meet the needs and goals of RCTC and the Rochester community.

If funding is not obtained for this project, the campus will experience numerous negative consequences. The backlog of deferred maintenance will increase, causing the facility condition index (FCI) to exceed the MnSCU benchmark goal of .11 to .13. The HVAC and electrical systems in Plaza and Memorial Halls 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 that cause a high number of complaints and additional service costs. There are issues with the chiller plant backlog that would 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 overall utility costs. Neither Memorial Hall nor Plaza Hall contain a fire sprinkler suppression system, and the fire alarm system would remain outdated. Existing classrooms fail to support the current pedagogical interactive learning styles necessitated by today's higher educational environment. The college would be unable to eliminate underutilized classroom space. Restrooms would not meet ADA requirements.

Impact on Agency Operating Budgets

This project will reduce operating costs through a reduction in campus square footage. The new addition will be much more energy efficient than the old square footage it replaces.

Description of Previous Appropriations

$1 million for design in 2014.

Project Contact Person

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($ in thousands)

Hibbing Community College - Campus Reconfiguration

AT A GLANCE

2016 Request Amount:	$9,958
Priority Ranking:	8
Project Summary:	This project reorients the front door of campus to face 25th Street, constructs a new entryway, and demolishes Building G and the southwest wing of Building F along with several covered walkways. The project also renovates Buildings M, L, F, C, & D to create a one stop student services hub, more efficient and centrally located library and academic center space, and space for Advanced Minnesota--NHED's regional, customized/continuing education training enterprise. The project demolishes 21,890 sq. ft., renovates 33,614 sq. ft., and constructs a 5,000 sq. ft. addition.

Project Description

By removing portions of selected buildings and renovating a significant area of campus, this project creates improvements in multiple areas, including deferred maintenance, energy efficiency, space utilization, and the campus's spatial relationship to the community. This project creates a Learning Commons that will adjoin the student services area so that counseling and advising support is accessible along with centrally located disability services, Veterans services, and diversity/multicultural services. This project also improves and simplifies campus circulation, keeping students and staff closer to the main educational space. Students will have greater access to improved technology, flexible classrooms and learning environments, and integrated support services.

Project Rationale

At the heart of this project is a centrally-located Learning Commons which will house a consolidated learning/academic center and a modern library. Individual and group study areas and numerous technology stations will be conveniently located for student use. The Learning Commons will adjoin the student services area so that counseling and advising support is readily accessible. 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 in 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. This project will also provide Advanced Minnesota a new technologically-supported, centrally-accessible location in which to serve the 500 businesses and 14,000 individuals of the area's incumbent work force.

A one stop student services center and improved academic support will aid enrollment and student success. 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.

Modernized and more efficient fine arts learning spaces will be created to serve students in the music and visual arts programs. These space will be designed with flexibility in mind so that other programs can utilize the classrooms/labs when available.

Other Considerations

Currently the library is not located within the main student traffic flow and is underutilized; as a result, it 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 into a Learning Commons in 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 Minnesota/Customized Training Center is a consolidation of the five NHED customized training departments into one enterprise. Advanced Minnesota is currently housed in Building G in a space that does not match its needs. Eliminating "dead" space and creating 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

This project shrinks the college's physical footprint and reduces its associated operational costs by an estimated $60,000 annually. New energy efficient HVAC systems in Buildings L and M will replace 45 year old systems, so operating costs will be reduced with savings in energy as well as maintenance costs. Mismatched spaces will become modern; flexible learning spaces and academic services will operate more efficiently. The collective savings from these efficiencies will allow more investment into the college's academic programs.

Description of Previous Appropriations

Design in the 2014 bonding bill of $381,000

Project Contact Person

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($ 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 II of the Education Village project completes the 82,696 sq. ft. renovation of Wabasha Hall and portions of Cathedral School, selectively demolishes 28,600 sq. ft. including the Annex between Cathedral and Wabasha Rec, and constructs a 5,000 sq. ft. addition to Wabasha Hall.

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 project 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.

Project Rationale

In Minnesota and surrounding states, 72% of school districts report shortages of new graduates prepared to teach 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 has more than 2,000 students--about 20% of the student body--who will benefit from the updated spaces created by this project.

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; 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.

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, and Counselor Education) and the faculty involved in what are referred to as content-area teacher education programs such as STEM, Health, Art, Therapeutic Recreation, and Outdoor Education. 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. 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 would 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 would 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

The demolition of 28,600 sq. ft. will reduce facility operating costs for the campus. The new construction will be more energy efficient, and building systems within the existing buildings will be replaced with energy efficient systems, creating reductions in operating costs.

Description of Previous Appropriations

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

Project Contact Person

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($ in thousands)

St. Cloud State University - Student Health and Academic Renovation

AT A GLANCE

2016 Request Amount:	$18,572
Priority Ranking:	10
Project Summary:	This project renovates 43,291 sq. ft. in Eastman Hall and adds 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 brings together SCSU's team of health care providers and related academic units. Co-locating Student Health Services (SHS), Counseling and Psychological Services (CAPS), U-Choose and the Recovery Community (RC) will coordinate delivery of student health services, increase access for SCSU students, and reduce stigma for seeking mental health services. With SHS having 16,000 visits annually, CAPS 3,600 visits, and U-Choose and RC outreach to 8,000 students, all students will benefit from these consolidated health-related services. The more than 2,600 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.

Project Rationale

This project ensures an extraordinary education by redesigning the classroom experience to support employer expectations that students will acquire interdisciplinary knowledge, critical and analytical reasoning skills, and applied learning experiences to prepare them for dynamic workplace demands. The renovated spaces will create an environment for academic and service integration that models and facilitates health, wellness, lifelong learning and development of the whole student. Enhanced collaboration will occur with St. Cloud Community and Technical College (SCTCC) for student services and experiential learning.

This renovation helps SCSU to accommodate the documented demand for university graduates in health related fields by integrating experiential learning environments (e.g., Kinesiology, Counseling, Nursing, Chemical Dependency) so that our graduates are cross-trained in multiple disciplines. These improved learning spaces will help strengthen ties with our professional and medical communities.

The Eastman Hall project brings numerous benefits to campus. The project eliminates deferred maintenance of $3.8 million; existing building systems (HVAC, windows, etc.) will be replaced, leading to greater energy efficiency. Additionally, students will benefit from free or low cost health-related services. Once the project is complete, spaces vacated by the units in Eastman will provide needed space for classrooms and meetings and repurposed space for Residential Life elsewhere on campus.

Other Considerations

SCSU has committed to supporting 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.

For this project, short term leasing is not a viable option: Leasing the necessary spaces would create new costs while not addressing the need to eliminate deferred maintenance of $3.8 million.

Delayed funding would 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. If this project is not funded, students in the affected programs will not experience the optimal interdisciplinary preparation for the work force that is desired by employers in these health-related fields.

Impact on Agency Operating Budgets

This project increases square footage but not cubic footage with the use of air space in the gymnasium, resulting in increased energy efficiency and facility productivity. Existing building systems within Eastman will be replaced with new, energy efficient systems that will reduce operating costs.

Description of Previous Appropriations

$865,000 for Design fees funded in 2014

Project Contact Person

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($ 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 renovates and renews 21,744 sq. ft. of space in four different buildings to repurpose space recently vacated by programs moving into the new Clinical Sciences building funded in the 2014 bonding bill. This project also replaces a worn out 27-year-old roof at Wissink Hall.

Project Description

This project 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. Departments and functions moving into the new building are vacating spaces such as clinics and treatment rooms that would not serve any useful purpose unless renovated. Consolidating the Psychology department into some of these renovated spaces will eliminate the need to lease off-campus space and eliminate inefficiencies of faculty being scattered in several locations across campus. Over 1,900 students are enrolled in the programs impacted by this project; the addition of flexible instruction classroom space and an on-line content video production studio at Morris Hall provides additional benefit to all students.

Project Rationale

This project benefits five different departments in three different divisions on campus, including Family Consumer Science (FCS), Intensive English Language Institute (IELI), Instructional Technology, Nursing, and Psychology. Planning for the project was done in a collaborative manner in alignment with the campus Strategic and Facilities Master Plan. The remodeling in Wiecking Center for FCS includes remodeled food labs, remodeled classrooms and HVAC upgrades. A new collaborative learning lab will greatly improve the physical, psychological, and social learning context of the department with new equipment and technology in hands-on learning environments.

This project also enhances the new Wellness graduate-level degree (a new interdisciplinary program offered through FCS, Health Science and Human Performance in the College of Allied Health and Nursing) and the new 2+2 degree program in Food Science with Riverland Community College. New collaboration space will lead to greater student satisfaction and success in completing the program at MSU.

The Intensive English Language Institute (IELI), which will benefit from remodeled spaces in this project, represents a crucial component of the university's current strategic priorities (2010-2015). IELI assists students who use English as a second language. International student enrollment was up 10% in Academic Year 2013-14 and increased 14% this fall to 1,067 students. IELI enrollments have more than doubled in the past 12 months and are 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.

Other Considerations

A videography studio for online courses in Instructional Technology is part of the Morris Hall renovation. Existing simulation space in Wissink Hall will be renovated into instructional and collaborative learning space that includes telepresence technology. The telepresence classroom will improve instruction and participation across sites, as the college has partnerships with the Northeast Higher Education District (NHED) to offer the completion of the baccalaureate and graduate nursing programs with the Iron Range sites. Enrollment growth in these programs remains strong, with 965 declared majors last academic year despite declines in other areas. Health care workforce statistics show that 14,183 new nurses will be needed by 2017, contributing to a need for up-to-date facilities for these programs.

The Armstrong Hall portion of the project benefits Psychology undergraduate and graduate programs including Clinical Psychology, Industrial Organizational Psychology, and School Psychology. By moving the psychology faculty into one building from three separate locations, students will be better served by improved access to advising. 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 master's program. These students do major consulting projects with business and governmental agencies. School of Psychology doctoral students and Clinical Psychology master's students perform assessment interviewing and testing with supervision of their professors.

MSU, Mankato, in support of renewable energy and our campus sustainability goals, will provide and install solar photovoltaic panels on the new Clinical Sciences Building, whose roof is designed to be solar-ready. The university expects 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

The yearly operating savings resulting from this project will be: $1,000 electrical and HVAC; $2,690 energy savings from the new Wissink roof insulation; and $2,250 from the new solar photovoltaic system.

Description of Previous Appropriations

$2 million for design in 2012, $26 million for construction in 2014.

Project Contact Person

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($ 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 1 of this three-phase project addresses student needs through the design of a new 51,200 sq. ft. Nursing and Active Learning Center (NALC) that replaces the Business Nursing building and extension, and creates a new front entry and approach driveways. Phase 1 also renovates approximately 23,328 sq. ft. in the existing 1960s-era humanities building to modernize seven classrooms and create highly flexible learning spaces.

Project Description

Together, the three phases of this project 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 Associate of Science in Nursing degree (ADN) and Bachelor's in Nursing (BSN) levels for the Minnesota Alliance for Nursing Education (MANE) curriculum. By redesigning numerous spaces, the college establishes a welcoming front door and surrounds this collegial space with student services to welcome and support all students. This project will be phased to allow for reasonably-sized funding requests and adequate balancing of college resources.

Project Rationale

Phase 1 of this project designs the NALC and renovates the humanities building; the renovation will update and modernize the building to provide highly flexible learning spaces. Phase 2 of the project demolishes the existing BN Extension Building and constructs the new Nursing and Active Learning Center. Phase 2 involves nearly all academic areas of the college and addresses the growing needs of STEM, Nursing, Humanities, Social Sciences, and Business through modernized and flexible classrooms. Phase 3 of the project demolishes the existing Business Nursing building and constructs the new front entry to the campus along with a new approach road and drop-off area.

When complete, 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 standalone buildings 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). The renovated facilities provided by this project will allow the program to enroll sixteen additional students (two additional cohorts or annual 18 FTE). This expansion of the nursing program will help the college to meet

workforce projections.

Other Considerations

Leasing opportunities are not viable for the programs impacted by this project, as much of this renovated space will incorporate highly customized simulation labs and learning environments--spaces that are unique and critical to the program's success. Additionally, baccalaureate-granting institutions (Metropolitan State University and Bemidji State University) are committed to using the space.

Since its inception, the campus has lacked enhanced collegial space that creates a student-centric environment. The college's master plans over the past twenty years have recommended creating a warm, hospitable, welcoming gateway onto campus, but a lack of funding has prevented this idea from being realized. The goals of this project, including improved wayfinding, diverse classroom spaces and added collegial spaces, cannot be met with alternative spaces. The disjointed manner in which such services and wayfinding are 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

When all phases of this project are complete, a 50% reduction in energy costs for the areas affected by this project will result from the removal of the most inefficient campus areas. Cost savings of $45,600 are projected on an annual basis.

Description of Previous Appropriations

None

Project Contact Person

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($ in thousands)

Century College, East Campus - Applied Technology Center

AT A GLANCE

2016 Request Amount:	$5,500
Priority Ranking:	13
Project Summary:	This project creates a multi-disciplinary Engineering and Applied Technology Center and continues development of a STEM precinct on the east campus, renovating 10,600 sq. ft. and constructing a 4,000 sq. ft. floor extension within the existing building footprint. The project adds an adjacent learning commons and flex labs to support continuing education and customized training. The nearby welding laboratory will also be upgraded to more closely meet the needs of the applied technology/mechatronics program areas.

Project Description

In establishing a strong presence for STEM, this project increases enrollment and retention while leveraging existing space and programs to address STEM needs. Business partnerships will be built to address workforce needs; businesses in the northeast Metro area will benefit from remodeled classrooms and labs dedicated to training for advanced manufacturing and applied technology. The project also reorganizes the welding and makers' lab spaces. It will expand university partnerships and reduce deferred maintenance by $590,000.

Project Rationale

This project aligns priorities by advancing the college's facilities master plan top priority. It targets state priorities by developing STEM, manufacturing, technology, and engineering space. By creating a learning commons, coordinating study space near faculty and support offices, and giving students access to individualized learning and advising, this project improves access and success for underrepresented students. The project creates 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.

By enhancing engineering spaces, this project promotes retention, completion, and transfer, as many engineering students transfer to baccalaureate programs. These renovated spaces will also allow the college to expand existing university partnerships and develop new partnerships.

This design provides a number of cost-reducing strategies. The college considered options with costs over $11 million; the final option reduces the project scope and cost. To improve space utilization, this project prioritizes renovation and repurposed space. Improved HVAC systems will reduce deferred maintenance. The project builds in features such as flexible classrooms for use by various programs; it also leverages existing flexible classrooms. Additional operating costs will be proportionally borne by District 916 (through the Joint Powers Agreement), decreasing college operating costs.

Other Considerations

When we were considering a larger project that included the first floor, we assessed the feasibility of moving the automotive programs (either District 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. 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

The increase in operating costs resulting from this project is expected to be slightly less than $20,000 in FY2017. Based on the additional square footage, the college would add no more than 0.20 FTE housekeeping staff, projected to cost $10,500 in FY2017. Utilities are projected to increase no more than $8,850 due to the new square footage. With the increased efficiency of the new HVAC systems, the utilities increase may not be as high as projected.

Description of Previous Appropriations

Project Contact Person

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($ 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:	The Advanced Manufacturing Integration and Revitalization (AMIR) project renovates and updates 25,530 sq. ft. of skilled technical spaces on the Brooklyn Park campus. Phase I provides design funding for the entire project as well as construction funding for roof replacement and remodeling to create a new entry and identity for the AMIR programs. Phase I also includes interior remodeling of existing lab spaces and classrooms associated with Electronics, HVAC, and Welding programs.

Project Description

Advanced Manufacturing is the integration of technology based systems and processes in the production of products (fit, form, and function) to the highest level of quality and in compliance with industry specific certification standards. Products and processes are often innovative, made from advanced materials and components, and produced on technology-driven equipment and processes. Paramount to Advanced Manufacturing is a highly skilled workforce operating in lean and continuous improvement cultures. The goal of Advanced Manufacturing companies is to continue to strive to be the “best in class”, focused on high performance, with constant awareness of customer expectations.

This project’s upgrades and renovations of current manufacturing spaces take advantage of the latest innovations in manufacturing and engineering processes, ensuring that graduates are prepared to meet the needs of today’s and tomorrow’s high performance manufacturing companies. HTC’s current facilities do not meet current and future industry needs.

Project Rationale

This project creates spaces that will house state of the art manufacturing labs and foundational learning spaces, faculty offices, and support spaces modeled after advanced manufacturing industries. These remodeled spaces will promote student exposure to, and experience with, a fully integrated continuum of advanced manufacturing. The spaces will meet industry needs for training, advancing opportunities for students to receive the highest quality, industry-relevant education.

The northwest Metro area holds the largest concentration of manufacturing companies in the Twin Cities, and the Brooklyn Park campus enjoys the largest enrollment in manufacturing programs of any technical college in the state. Modernizing program spaces at this campus is key to addressing student demand and serving industry partners with access to current technology, automation, and processes relevant to advanced modern manufacturing. This project will help these programs to stay current in the development of customized training programs for businesses. Modernizing spaces will provide innovative and flexible advanced manufacturing instruction spaces modeled after industry, allowing business to partner in the development of curriculum to best serve evolving workforce needs. This project will showcase advanced manufacturing technologies to sustain current partners and

attract new partners, promoting a sense of collective mission between higher education and the business community.

Other Considerations

For FY2014, the combined enrollment of the nine target programs for this project exceeded 23% of all students on the Brooklyn Park campus. Enrollment in Brooklyn Park manufacturing programs has continued to be high over the last five years, and 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 five 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

As part of this project, the existing HVAC units and all related ductwork will be replaced. When this replacement is considered with the other energy reduction strategies included in this project, the campus will experience a total utility cost savings of approximately 5%.

Description of Previous Appropriations

None.

Project Contact Person

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($ 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 Phase 1 project designs two future construction phases that will renovate 32 classrooms in the College Services building and renovate a math lab, an open computer lab, and the tutoring center; reorganize student support services; and construct site improvements to address ADA compliance and storm water management. The 51,000 sq. ft. renovation will serve all 14,533 students and improve classrooms for 35 departments that use the building. More than $10.2 million in deferred maintenance will be eliminated.

Project Description

This project improves the experience for first-generation college students, increasing retention and assisting students in achieving their educational goals. Creating a centralized Student Service Hub will simplify the academic support process and allow staff more time to assist with student issues. Renovating classrooms will remove tiered classrooms that limit Active Learning.

Project Rationale

This project improves 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 tiered classrooms are inflexible and have outdated technology. Though the college's physical footprint has not expanded in many years--1996 is the most recent addition to College Services--enrollment increased over 55% the last 13 years, and nearly all of the 14,533 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 that supports student persistence and completion. The prominent location within the academic zone would heighten awareness of services and programs, assisting in increasing the participation of underrepresented populations. These populations will be further supported by increasing the space available for the Veteran's Resource Center, Diversity Center, and Experiential Education.

The updated spaces will be multifunctional so small spaces can serve as conference rooms, seminar rooms, and individual and group study rooms. The larger rooms will be structured so that they can be easily reconfigured based on the need--for 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 the students of our partners: Metropolitan State University; Minnesota State University, Mankato; and Southwest Minnesota State University. In addition, this project will address the deferred maintenance items in the areas of campus that have some of the highest FCI values on campus, ranging from 0.20 to 0.30.

Other Considerations

This 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.

If the project is not funded, existing classrooms will not be renovated to address the issues with inflexible tiered classrooms, spaces with old technology will be poorly utilized, the college will be left with classrooms that are undersized for current class size needs, and renovated space will not be available for community use.

The Normandale Campus Room Assessment noted that half of the classrooms needing immediate attention or attention in the next two years are located in the College Services Building. The combined current deferred maintenance backlog is $5.2 million and increases an additional $5 million by 2020. If this project is not funded, these deferred maintenance items continue to accumulate and increase operational costs.

Impact on Agency Operating Budgets

This project is expected to decrease the college's operating costs due to several factors: • The utility costs of the campus will remain level or be slightly reduced when older, inefficient mechanical and electrical equipment is replaced. • Energy costs will be saved by replacing over 33% of the building’s roof. • The campus will see only a 0.1% increase in square footage through the addition of a vestibule; no additional custodial/maintenance staff will be hired. • Deferred maintenance items will be replaced and/or retrofitted. • Operation and maintenance costs are estimated to decrease $0.50-$1.00 per square foot.

Description of Previous Appropriations

None

Project Contact Person

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($ 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 designs the Weld Hall renovation to address significant deferred maintenance, improve pedagogy, and rightsize classrooms. The project increases the number of multifunctional classrooms and reduces the number of offices. Classroom sizes will be realigned to better serve a variety of class sizes and pedagogical approaches. Weld Hall serves over 3,000 students in English, Music, Film, Theatre, Construction and Operations Management.

Project Description

Weld Hall has some of the most significant deferred maintenance on the MSUM campus; this project will address those issues. The project creates 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 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.

Project Rationale

This project preserves the oldest and most distinguished building on campus and brings it into the 21st century with energy efficient building systems, code compliance improvements, and state of the art teaching environments. The renovation will foster faculty-student engagement and promote interactive workshop style classes. The auditorium will be remodeled into a multi-purpose auditorium/music performance space for use as teaching lab, lecture hall, and as a venue for campus film and music performances and community/workforce training events.

MSUM has considered different design options for this project. The current design reduces office space and adds new technologies to promote telepresence and remote instruction. A new accessible entry addition will create a public face adjacent to the street and give convenient access for workforce training and community events.

Weld Hall is home to the English Department, which serves over 1,500 students per semester. The project will create space specifically designed for courses that use innovative methods. The project also addresses 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.

Other Considerations

Employers say that communication effectiveness, the ability to work in teams, and analytical/problem-

solving skills are important attributes of new employees. The English Department develops these skills throughout their curriculum, and students' learning of these skills will be strengthened by the flexible, collaborative spaces provided by this project.

Weld Auditorium, a primary space for Music students, will serve as a lab for sound engineering students. This project gives students the opportunity to work in a state of the art performance hall and will allow them to gain immediate, relevant employment. Students in the music industry will be able to provide live sound support/recording in this 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. 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 also prepare students for publishing occupations.

This project maximizes efficiency 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 will be created to foster effective, instructional approaches. The computer lab will allow for more effective critique sessions of student work and provide instruction in advanced features of software application. A delay in funding for this project 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

The existing Weld Hall operating costs will be reduced due to efficiencies in the upgraded mechanical systems, new double-glazed windows & doors, and a more efficient automatic lighting control system and lighting fixtures resulting from this project.

Description of Previous Appropriations

None

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($ 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 designs the 31,800 sq. ft. renovation of the Business Building and construction of a new 2,000 sq. ft. connection to Heritage Hall. The project expands the learning space into unused building volume, improves access, and updates classroom configurations.

Project Description

This project seeks to improve space utilization by creating appropriately-sized “smart” classrooms to optimize class size and curriculum delivery. The project demonstrates IHCC’s concerted effort to focus on workforce needs, existing partnerships and STEM education; 2,800 students are served in these programs. This project aligns academic pathways between the college and four year baccalaureate programs in business and accounting. It combines the strengths of existing Heritage Hall STEM programs with computer networking technology programs. This project expands opportunities across disciplines for a 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 provides facilities that improve the college’s ability to support existing four year baccalaureate partnerships in business and accounting disciplines.

Project Rationale

Advisory boards have clearly outlined their expectations in the paralegal field that the classroom environment needs to simulate the work environment. The project includes spaces for partnership connections with CISCO Systems, a nationally recognized network computer corporation, as well as STEM classrooms and laboratories as an extension of the labs in Heritage Hall. It will ensure adequate and appropriate space for critical workforce ready skills, knowledge and abilities including mock interviewing, job shadowing, focus groups, and mentorships. Underserved students, students of color, high school students, and adult learners will benefit from enhanced access to these services and programs.

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 system-wide effort.

Other Considerations

The appropriately-sized rooms resulting from this project will increase 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 constraints, we currently limit enrollment.

The consequences of delayed funding for this project include inadequate space for new and existing

STEM program, limited upper division baccalaureate programs, an inability to address current severe safety and access concerns, curtailed core Liberal Arts Offerings, and unmet incumbent workforce training needs.

Impact on Agency Operating Budgets

Overall operating costs will decrease as a result of this project because new efficient mechanical systems will be installed in the renovated building. The renovation infills square footage within otherwise empty building volume. This results in a lower ratio of cubic volume to square foot assignable space.

Description of Previous Appropriations

None

Project Contact Person

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($ 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 renovates 39,173 sq. ft., adds 8,734 sq. ft. of shop space, and demolishes 7,488 sq. ft. to relocate the Truck Driving and Collision Repair programs from Austin to Albert Lea, integrating them into shared spaces with Auto Service and Diesel Technology programs. These updated spaces and systems will increase enrollment and retention and bring similar career and technical offerings together for shared programming and synergy with the Industrial Maintenance and Mechanics, Welding, Machining, Wind Turbine Technician, and Construction Electrician programs. Additional demolition will remove the obsolete Gateway Building. Over $1.8 million in deferred maintenance will be eliminated.

Project Description

The Albert Lea campus has not been significantly updated since the early 1970s. A significant 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. As part of this project, Collision Repair and Truck Driving will move from the Austin campus to the Albert Lea campus to share resources with Diesel Technology/Auto Service, and the Industrial Maintenance program will expand and share space with Construction Electrician and Alternative Energy programs.

Project Rationale

While Riverland continues to make strides updating curriculum and optimizing career ladders, significant barriers remain as a result of having related programs on different campuses with severely outdated equipment and facilities. Co-locating these programs allows students to cross-train in real world scenarios. Industry partners require collaboratively-trained workers who have current training applicable in modern shops. By increasing program capacity, Riverland will provide 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. Cross-training personnel in related industries has 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 when Riverland can only offer 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%, these programs will continue to have extraordinarily high demand. We also need to ensure that our facilities allow the training and the quality of the graduate we produce to be just as high.

Other Considerations

Riverland has considered a number of design options for this project; the current design shows the college's dedication to maximizing space through efficiencies in consolidation and adjacencies. The design's new floor plan layout improves efficiency and provides alignment in the trades areas. Delaying funding for this project would prolong workforce shortages and increase operation and maintenance costs addressed through this project.

Approximately 2,035 sq. ft. on the lower level of Riverland's Albert Lea campus is currently unusable due to accessibility problems and water infiltration. The circulation realignment resulting from this project will permit direct access from the elevator and stairs to remodeled lower level student spaces. By adding capacity and creating a more visible entrance to the Transportation, Trade, and Industrial Education Center, we will 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 of collaboration 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 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

The improved roof and HVAC from this project will result in overall energy savings. The removal of deferred maintenance will lower operational expenses for the college. Renovations to Building C and the demolition of Gateway will save the college $92,280 in maintenance/repairs for five years after completion. HVAC renovation and the removal of Gateway will save approximately $25,438 annually in utility savings.

Description of Previous Appropriations

None

Project Contact Person

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($ in thousands)

St. Cloud Technical and Community College - Classroom Initiative

AT A GLANCE

2016 Request Amount:	$625
Priority Ranking:	19
Project Summary:	This classroom renovation project creates three large multi-functional classrooms and an art classroom within the existing campus footprint. This project will utilize space that cannot currently be used, rightsize space that is not efficient or effective for use, and enhance student access, learning, and community engagement through classrooms designed to serve multiple functions. The 9,566 sq. ft. project will serve over 2,000 students taking Liberal Arts and prerequisite courses annually.

Project Description

SCTCC will complete this project's 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. 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. This project will address approximately $150,000 of deferred maintenance.

Project Rationale

This project renovates space that was originally used as Surgical Technology and Dental labs but has served only as storage since completion of the Health Sciences Building. 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 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.

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 the college faces challenges in utilizing 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 the old labs cannot be used in their current state. The existing classrooms were designed many years ago as dedicated health classrooms with limited capacity due to the low student to faculty ratio required by 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

This project addresses deferred maintenance and reduces instructional costs, leading to operating cost savings for the college.

Description of Previous Appropriations

None

Project Contact Person

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($ 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 renovates the Hennepin Avenue Skyway, which serves as the primary connector between the parking ramp and main campus buildings. This work will reclad, remodel and repair the 3,350 sq. ft. skyway and reclaim some of the skyway's existing circulation space to make collaborative space for students. The skyway serves approximately two-thirds of the 13,800 student population on a daily basis.

Project Description

Hennepin Avenue Skyway is both the main entry to the campus from the parking ramp as well as a primary visual gateway into downtown Minneapolis from the south. An average of 13,000-14,000 cars travel beneath the skyway on Hennepin Avenue daily. 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 and to each other. The recladding and remodeling project will significantly increase the views and daylight available to this connection.

Project Rationale

Minneapolis Community and Technical College's 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; the windows are failing as well. Deteriorating sealant joints have allowed moisture infiltration behind the panel system and caused energy loss and damage to the structure concealed behind the panels. The roofing system is also approximately 30 years old and in need of replacement.

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

The project will 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 to serve multifunctional activities.

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

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; this second option was chosen by the college because it represents the most cost effective long-term solution.

A delay in funding for this project would have numerous negative consequences. 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, creating opportunities for mold growth if these problems are not corrected. Energy loss from air leakage and other envelope problems in the skyway is an ongoing cost to the college. The roofing on the skyway 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 these construction costs.

Impact on Agency Operating Budgets

This project's installation of new wall and insulation, as well as new window framing, will reduce the amount of outside air infiltration, increase the insulation values, and result in better energy conservation for the campus. Maintenance and janitorial time is expected to remain the same because the campus square footage is not increased. Electrical loads will be reduced with LED lighting. Seasonal energy use for heating and air conditioning will be reduced due to increased thermal resistance and less infiltration. New controls will reduce artificial lighting operating hours by monitoring demand to optimize energy usage.

Description of Previous Appropriations

None

Project Contact Person

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($ in thousands)

Twin Cities Baccalaureate Access

AT A GLANCE

2016 Request Amount:	$300
Priority Ranking:	21
Project Summary:	This project will fund predesign and design work within the Twin Cities to enhance access to baccalaureate degree completion programs.

Project Description

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

Project Rationale

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.

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

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