

ADA Compliance: College (P936660)

Category	Montgomery College	Date Last Modified	05/18/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	117	87	18	12	2	2	2	2	2	2	-
Site Improvements and Utilities	235	234	1	-	-	-	-	-	-	-	-
Construction	1,351	928	135	288	48	48	48	48	48	48	-
TOTAL EXPENDITURES	1,703	1,249	154	300	50	50	50	50	50	50	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	1,703	1,249	154	300	50	50	50	50	50	50	-
TOTAL FUNDING SOURCES	1,703	1,249	154	300	50	50	50	50	50	50	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)				
Appropriation FY 19 Request		50	Year First Appropriation	FY93
Appropriation FY 20 Request		50	Last FY's Cost Estimate	1,603
Cumulative Appropriation		1,403		
Expenditure / Encumbrances		1,249		
Unencumbered Balance		154		

PROJECT DESCRIPTION

This project provides funding for modifications to College facilities to comply with the accessibility provisions of the Americans with Disability Act (ADA) of 1990. Typical modifications include: paths of travel, entrance doors, stairs, corridors, ramps, toilet facilities, drinking fountains, parking, curb cuts, elevators, areas of refuge, public phones, signage, emergency notification and alarm systems, and other accessibility modifications to meet comfort, security, and safety requirements for people with disabilities. This project addresses access deficiencies in all College facilities. Project implementation is in accordance with ADA guidelines and the College's annual work program. The College has conducted a series of facility audits to determine ADA compliance and scope of required modification work, including estimated costs. Readily achievable modifications are implemented as part of the College's regular maintenance work.

COST CHANGE

Increase is due to the addition of FY23 and FY24.

PROJECT JUSTIFICATION

The ADA requirements mandate a comprehensive effort to provide accessible programs and barrier free facilities to disabled persons. The deadline for compliance with the requirement to make the College's programs accessible was January 26, 1995; however, the law allows for additional time to comply if available resources are limited for structural and building modifications. Based on the College's annual work program and available funding for ADA modifications, the College anticipates that the project will continue beyond the current six-year CIP. Relevant studies include the Collegewide Facilities Condition Assessment Update (12/13) and the Collegewide Facilities Master Plan Update (2/16).

OTHER

FY2019 Appropriation: \$50,000 (G.O. Bonds). FY2020 Appropriation: \$50,000 (G.O. Bonds). The following fund transfer has been made from this project: \$7,000 to Planning, Design & Construction project (No. P906605) (BOT Resol. #01-153 - 10/15/01).

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

This project is coordinated with the scheduled building renovations, and the planned construction of new buildings, on the Rockville, Germantown and Takoma Park/Silver Spring Campuses.

Bioscience Education Center

(P056603)

Category	Montgomery College	Date Last Modified	05/23/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Germantown and Vicinity	Status	Under Construction

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	8,039	7,959	80	-	-	-	-	-	-	-	-
Construction	74,221	74,161	60	-	-	-	-	-	-	-	-
Other	10,067	9,375	692	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	92,327	91,495	832	-	-	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	50,553	50,544	9	-	-	-	-	-	-	-	-
State Aid	41,083	40,260	823	-	-	-	-	-	-	-	-
PAYGO	691	691	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	92,327	91,495	832	-	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	-	Year First Appropriation	FY05
Appropriation FY 20 Request	-	Last FY's Cost Estimate	93,140
Cumulative Appropriation	93,140		
Expenditure / Encumbrances	91,499		
Unencumbered Balance	1,641		

PROJECT DESCRIPTION

This project provides for the design and construction of a new biotechnology and science building (approx. 145,139 gsf) on the Germantown Campus, and for a new Germantown campus access road. This building will support Campus space needs and provide for up-to-date biotechnology and science laboratories in a modern facility that complies with current requirements. This new building is part of an overall plan to provide a Campus instructional focus in support of the biotechnology industry. This project also funds the design and construction of a new access road to provide an additional means of entrance and egress as student enrollment grows, and to better address emergency situations that may necessitate a campus evacuation. The current primary gateway and entrance to the campus is located on MD 118. The Germantown Access Road potentially will change from a two lane road to a four lane road to accommodate the additional traffic generated by the Germantown business park. The Council has approved an alignment for the access road consistent with the alignment referred to as West Alternative 2. In addition, the College is working with the County to develop an adjacent technology business park on the Germantown Campus as part of the up-County technology corridor. This new building and the biotechnology program is part of an overall strategy to supply a biotechnology workforce for Montgomery County and the State of Maryland. In addition to housing the biology, chemistry and biotechnology programs, this new building will have a meeting center providing the College and outside groups with opportunities to gather in support of scientific education.

ESTIMATED SCHEDULE

Project construction was completed in the fall of 2014

COST CHANGE

Funds no longer needed in the project of \$813,000 in G.O. Bonds were reallocated to Roof Replacement: College (#P876664)

PROJECT JUSTIFICATION

Under the application of the State space guidelines, the enrollment growth on the Germantown Campus has resulted in a significant instructional space deficit. The Germantown Campus has a 2022 projected instructional space deficit of 132,252 NASF and a total space deficit anticipated to be 227,390 NASF. In addition, the chemistry and biology classrooms and labs are currently located in outdated facilities; these will be updated under the Germantown Science and Applied Studies Phase 1 Renovation project. The new Bioscience Education building will provide a modern facility for up to date biotechnology instruction along with providing much needed additional space. The Germantown Campus accommodates 7,739 students and 494 full time, and part time faculty and staff (Fall 2012). Related studies include the Collegewide Facilities Master Plan Update (1/13), the Germantown Bioscience Education Center Facility Program (5/04), a Collegewide Facilities Condition Assessment Update (12/13), and the Bioscience Education Center Program Verification Report, (9/07).

OTHER

FY19 appropriation: -\$813,000. Additional funding Sources: Paygo, and State Aid. State share of the project is based on anticipated eligible costs. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The following fund transfers have been made to this project: \$4,500,000 from the Rockville Science Center project (No. P036600) (BOT Resol. #12-01-07, 1/30/12); \$555,000 from the Health Sciences Expansion project (#P096603), \$300,000 from the Rockville Parking Lot and Tennis Court Relocation project (#P096602), and \$200,000 from the Energy

Conservation project (#P816611)(BOT Resol. #12-06-036, 6/11/12). The following fund transfers have been made from this project: \$700,000 in G.O. Bonds to the Planning, Design, and Construction project (#P906605) (BOT Resol. #16-04-051, 4/18/16);. In addition, \$813,000 in G.O. Bonds were reallocated to the Roof Replacement: College project (#P876664).

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Energy Conservation: College (CIP No. P816611), Facility Planning: College (CIP No. P886686), Germantown Observation Drive Reconstruction (CIP No. P096604), Germantown Science and Applied Studies Phase 1 Renovation (CIP No. P136600)

Capital Renewal: College (P096600)

Category	Montgomery College	Date Last Modified	05/18/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	4,246	1,240	1,206	1,800	300	300	300	300	300	300	-
Construction	21,563	9,392	1,971	10,200	1,700	1,700	1,700	1,700	1,700	1,700	-
Other	1,079	750	329	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	26,888	11,382	3,506	12,000	2,000	2,000	2,000	2,000	2,000	2,000	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	26,888	11,382	3,506	12,000	2,000	2,000	2,000	2,000	2,000	2,000	-
TOTAL FUNDING SOURCES	26,888	11,382	3,506	12,000	2,000	2,000	2,000	2,000	2,000	2,000	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	2,000	Year First Appropriation	FY09
Appropriation FY 20 Request	2,000	Last FY's Cost Estimate	22,888
Cumulative Appropriation	14,888		
Expenditure / Encumbrances	11,382		
Unencumbered Balance	3,506		

PROJECT DESCRIPTION

This project provides funding for the capital renewal and major renovation of College facilities for new and changing College academic programs and student service operations. The major focus of this project is to support programmatic changes to College facilities and operations by allowing the College to continue an on-going building modernization effort where State aid is lacking. With this project, the College will selectively focus State aid requests on high cost projects utilizing these County funds to support an on-going renovation effort on each campus. In conjunction with programmatic improvements and modifications, this project will replace aging building systems, such as heating, air conditioning, electrical, plumbing, etc., provide furniture, fixtures, and equipment; and update facilities to current building codes and regulations.

COST CHANGE

Increase is due to the addition of FY23 and FY24.

PROJECT JUSTIFICATION

Starting FY2009, the County approved funding several renovation projects from the Capital Renewal project. These renovation projects were less likely to receive funding from the State, and as a result five projects at that time were merged into the Capital Renewal project. In November 2007, the College updated a comprehensive building system/equipment assessment, including site utilities and improvements, that identified deficiencies, prioritized replacements and upgrades, and provides the framework for implementing a systematic capital renewal program to complement on-going preventive maintenance efforts. The College continues to have a significant backlog of major building systems and equipment renovations and/or replacements due to the age of the Campuses and deferral of major equipment replacement. Key components of the HVAC, mechanical and electrical systems are outdated, energy inefficient, and costly to continue to repair. The renovation and/or replacement of major building systems, building components and equipment, and site improvements will significantly extend the useful life of the College's buildings and correct safety and environmental problems. The Collegewide Facilities Condition Assessment identified a \$85 million deferred maintenance backlog for the three campuses. If additional financial resources are not directed at this problem, College facilities will continue to deteriorate leading to higher cost renovations or building replacements. Related studies include the Collegewide Facilities Condition Assessment Update (12/13), and Collegewide Master Plan 2013-2023 (2/16), and Utilities Master Plan (5/06).

OTHER

FY19 Appropriation: \$2,000,000 (G.O. Bonds). FY20 Appropriation: \$2,000,000 (G.O. Bonds).

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

Energy Conservation: College (CIP No. P816611), Facility Planning: College (CIP No. P886686), Planned Lifecycle Asset Replacement: College (CIP No. P926659), Roof Replacement: College (CIP No. P876664), Site Improvements: College (CIP No. P076601)

Collegewide Library Renovations

(P661901)

Category	Montgomery College	Date Last Modified	05/15/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	1,580	-	-	690	-	400	-	-	-	290	890
Construction	12,385	-	-	555	-	-	-	-	55	500	11,830
Other	5,305	-	-	3,915	-	-	-	-	-	3,915	1,390
TOTAL EXPENDITURES	19,270	-	-	5,160	-	400	-	-	55	4,705	14,110

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	19,270	-	-	5,160	-	400	-	-	55	4,705	14,110
TOTAL FUNDING SOURCES	19,270	-	-	5,160	-	400	-	-	55	4,705	14,110

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request				-	Year First Appropriation						
Appropriation FY 20 Request				400	Last FY's Cost Estimate						
Cumulative Appropriation				-							
Expenditure / Encumbrances				-							
Unencumbered Balance				-							

PROJECT DESCRIPTION

This project provides funding for the renovation of the libraries on Montgomery College's three campuses, specifically the Germantown Humanities and Social Sciences Building, the Rockville Macklin Tower Building, and the Takoma Park/Silver Spring Resource Center. An architecture firm has developed conceptual designs for the three campus libraries, and has identified improvements required to support organizational and service changes, and to modernize the libraries. The main library floors will be hubs of academic life at Montgomery College: dynamic spaces that will be student-centered, technology and service-driven, and will foster innovation. The upper floors will provide students with comfortable and quiet study spaces and smaller, curated collections to support their academic and career goals. Additional goals of this project is to meet the variety of student needs including group study, individual study, and silent study.

LOCATION

College-wide

ESTIMATED SCHEDULE

Design for the renovation of the Takoma Park/Silver Spring campus library is to begin in FY20. Construction will start in FY21 pending the availability of funds. Renovations of the other campus libraries is expected to follow.

PROJECT JUSTIFICATION

Both the Germantown Humanities and Social Sciences Building, and Takoma Park/Silver Spring Resource Center were constructed in 1978, and are 39 years old. The Rockville Macklin Tower Building was constructed in 1971 and is 46 years old. All three of these buildings are outdated, space and service configuration is insufficient, employee workspaces are inadequate to promote collaboration with colleagues, as well as, support student success. In FY16, the Montgomery College Libraries had nearly 670,000 visitors, and ethnographic studies have shown that libraries are one of the places at Montgomery College where students can escape from work and family obligations to get homework and studying done. In addition, Montgomery College's libraries provide students access to technology to be successful in their coursework. In FY16, the Montgomery College library's computers, laptops, and tablets were used approximately 200,000 times by nearly 18,000 unique users. Providing computers, laptops, tablets, software, scanners, internet, and accessible software programs improves college affordability for students who wouldn't otherwise be able to afford those tools. The Montgomery College Libraries increasingly support educational excellence by embedding librarians and information literacy into classes with 7,600 students taught. Other relevant studies and plans include the Libraries Master Plan (2015), Montgomery College Libraries' Ethnographic Studies 2013-2016 (2016), Collegewide Master Plan 2013-2023 (2/16), Libraries Planning Study (6/17), and Libraries Planning Study Germantown Addendum (9/17).

FISCAL NOTE

The College is able to fund design for renovation of the Takoma Park/Silver Spring library in FY20 by reallocating \$400,000 from the Rockville Student Services project (#P076604). Additional funds for construction of that library as well as design and construction of the Rockville and Germantown campus libraries will be appropriated as affordability allows. Currently, the capital budget programs \$55,000 in G.O. Bonds in FY23 and \$4,705,000 in G.O. Bonds in FY24. \$400,000 were reallocated to this project from the Rockville Student Services project (#P076604).

COORDINATION

Collegewide Road/Parking Lot Repairs and Replacements (P661801)

Category	Montgomery College	Date Last Modified	02/05/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Preliminary Design Stage

Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
Planning, Design and Supervision	150	-	50	100	50	50	-	-	-	-	-
Construction	1,350	-	450	900	450	450	-	-	-	-	-
TOTAL EXPENDITURES	1,500	-	500	1,000	500	500	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
Transportation Facilities Capital Projects Fund (College)	1,500	-	500	1,000	500	500	-	-	-	-	-
TOTAL FUNDING SOURCES	1,500	-	500	1,000	500	500	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	500	Year First Appropriation	FY18
Appropriation FY 20 Request	500	Last FY's Cost Estimate	1,500
Cumulative Appropriation	500		
Expenditure / Encumbrances	105		
Unencumbered Balance	395		

PROJECT DESCRIPTION

This project provides funding for the repair, maintenance and improvements of the College's parking lots, roadways, walkways, and associated site infrastructure, such as lighting, signage, site communications, and security, and storm water management.

PROJECT JUSTIFICATION

The College completed a facilities condition assessment in December 2013 that evaluated these systems and identified major repair and/or replacement requirements. Related studies include: the Collegewide Master Plan 2013-2023 (2/16), and the Collegewide Facilities Condition Assessment (12/13).

OTHER

FY19 Appropriation: \$500,000 (Transportation Facilities Capital Projects Fund-MC only). FY20 Appropriation: \$500,000 (Transportation Facilities Capital Projects Fund-MC only).

COORDINATION

This project is coordinated with Utility Master Plans and building renovations on the Rockville, Germantown, and Takoma Park/Silver Spring Campuses, Capital Renewal: College (CIP No. P096600), and Site Improvements: College (P076601).

Collegewide Physical Education Renovations (P661602)

Category	Montgomery College	Date Last Modified	01/25/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Preliminary Design Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	710	390	320	-	-	-	-	-	-	-	-
Construction	7,290	3,780	2,010	1,500	1,500	-	-	-	-	-	-
TOTAL EXPENDITURES	8,000	4,170	2,330	1,500	1,500	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

Major Facilities Capital Projects Fund (College)	8,000	4,170	2,330	1,500	1,500	-	-	-	-	-	-
TOTAL FUNDING SOURCES	8,000	4,170	2,330	1,500	1,500	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	1,500	Year First Appropriation	FY16
Appropriation FY 20 Request	-	Last FY's Cost Estimate	6,500
Cumulative Appropriation	6,500		
Expenditure / Encumbrances	4,170		
Unencumbered Balance	2,330		

PROJECT DESCRIPTION

This project provides funding for the renovation of physical education buildings, specifically the Germantown Physical Education building, the Rockville Physical Education Center. The College completed a facilities condition assessment of these buildings in December 2013 that evaluated all building systems and related equipment and identified major repair and/or replacement requirements. In addition, this project will fund sports turf to support the College's athletic program. This project also funds title IX improvements.

PROJECT JUSTIFICATION

The Germantown Physical Education building was constructed in 1980, and is 37 years old. The Rockville Physical Education Center was constructed in 1966, and is 51 years old. These buildings are experiencing a progressive deterioration of building systems and major pieces of building equipment. It has now reached the point that addressing the problem of a deteriorating building infrastructure is beyond the scope of a maintenance effort and that building repairs are no longer adequate or cost effective. Key components of the HVAC, mechanical and electrical systems are outdated, energy inefficient, and costly to continue to repair. The refurbishment and/or replacement of major building systems and related equipment will significantly extend the useful life of the building and correct safety and environmental problems. The College completed a building condition assessment in 2013 that provides a detailed evaluation of building deficiencies and initial cost estimates for major repairs, equipment replacements, and related improvements. Related studies include: Collegewide Master Plan 2013-2023 (2/16), and the Collegewide Facilities Condition Assessment (12/13).

OTHER

FY19 Appropriation: \$1,500,000 (Major Facilities Capital Projects Fund-MC only).

COORDINATION

Energy Conservation: College (CIP No. P816611), Planned Lifecycle Asset Replacement: College (CIP No. P926659), Roof Replacement: College (CIP No. P876664).

Computer Science Alterations

(P046602)

Category	Montgomery College	Date Last Modified	05/23/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Rockville	Status	Final Design Stage

Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
Planning, Design and Supervision	550	296	254	-	-	-	-	-	-	-	-
Construction	494	481	13	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,044	777	267	-	-	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
G.O. Bonds	1,044	777	267	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	1,044	777	267	-	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	-	Year First Appropriation	FY01
Appropriation FY 20 Request	-	Last FY's Cost Estimate	1,159
Cumulative Appropriation	1,044		
Expenditure / Encumbrances	777		
Unencumbered Balance	267		

PROJECT DESCRIPTION

This project provides funding for (1) the renovation of the upper floor of the Computer Science Building to create new classrooms, a telecommunications room and offices, and (2) a 438-space surface parking lot at the Carver site across from the Rockville Campus. The Computer Science building is located on the Montgomery College - Rockville Campus at 51 Mannakee Street, Rockville, MD 20850.

COST CHANGE

The approved budget reallocates \$76,000 (G.O. Bonds) to the Germantown Science and Applied Studies Renovation project (P136600) to cover additional costs associated with unforeseen conditions. Funds no longer needed in the project of \$191,000 in G.O. Bonds were reallocated to the Elevator Modernization: College project (#P056608).

PROJECT JUSTIFICATION

The Rockville Campus has a current (Fall 2014) instructional space deficit of 68,975 net square feet and a total space deficit of 242,373 net square feet. The College is experiencing ongoing shortage of classroom space. The network operating center (NOC), previously housed in the Computer Science Building, has relocated to the Cafritz Foundation Arts Center on the Takoma Park/Silver Spring Campus. The relocation of the NOC has freed up space in the Computer Science Building which is being converted to classrooms and offices. In addition to the shortage of classroom space, there is a similar shortage of parking spaces due to enrollment growth. The 438 space surface parking lot is complete, was opened for Fall 2006 classes, and will help alleviate some of that shortage. Related studies included the Collegewide Facilities Condition Assessment Update (12/13), and the Collegewide Master Plan 2013-2023 (2/16).

OTHER

FY19 Appropriation: -\$267,000 G.O. Bonds. Renovation of the Computer Science Building is coordinated with the relocation of the NOC from the Computer Science Building on the Rockville Campus to the Cafritz Arts Center on the Takoma Park/Silver Spring Campus. As of FY10, the Takoma Park/Silver Spring Campus NOC is fully operational. The following fund transfer has been made from this project: \$115,000 to the Germantown Science and Applied Studies Renovation project (P136600) (BOT Resol.#17-11-121 ,11/13/17). In addition, \$76,000 was reallocated to the Germantown Science and Applied Studies Renovation project by Council action in FY19; and \$191,000 was reallocated to Elevator Modernization: College (#P056608) by Council action in FY19.

COORDINATION

Cafritz Foundation Arts Center (CIP No. P056604), Network Operating Center (CIP No. P076618)

Elevator Modernization: College

(P056608)

Category	Montgomery College	Date Last Modified	05/22/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
Planning, Design and Supervision	653	539	14	100	100	-	-	-	-	-	-
Construction	5,227	2,942	479	1,806	806	200	200	200	200	200	-
TOTAL EXPENDITURES	5,880	3,481	493	1,906	906	200	200	200	200	200	-

FUNDING SCHEDULE (\$000s)

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
G.O. Bonds	5,880	3,481	493	1,906	906	200	200	200	200	200	-
TOTAL FUNDING SOURCES	5,880	3,481	493	1,906	906	200	200	200	200	200	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	906	Year First Appropriation	FY03
Appropriation FY 20 Request	200	Last FY's Cost Estimate	4,174
Cumulative Appropriation	3,974		
Expenditure / Encumbrances	3,481		
Unencumbered Balance	493		

PROJECT DESCRIPTION

This project provides funding for the modernization and/or replacement of existing elevators on all three campuses. Specifically, this project provides for an additional elevator for the High Technology Building on the Germantown Campus.

COST CHANGE

FY19 is increased to cover the full cost of the new elevator project, \$706,000 in G.O. Bonds of which is supported with funds reallocated from project balances elsewhere in the College capital budget: \$191,000 in G.O. Bonds from Computer Science Alterations (#P046602), \$68,000 in G.O. Bonds from Science West Building Renovation (#P076622), and \$447,000 in G.O. Bonds from Rockville Student Services (#P076604). Additional increases are due to the addition of FY23 and FY24.

PROJECT JUSTIFICATION

Many elevator systems at the College are inefficient, outdated and beyond continued economic repair. While the College's maintenance program has kept elevators operational, spare parts are not readily available from maintenance providers for many of the older pieces of elevator equipment. This results in extended down time, high maintenance costs, higher energy consumption, and the lack of current car safety devices. This project will modernize elevators to improve overall performance, safety, reliability and energy conservation, and to achieve code compliance. Furthermore, some buildings lack elevators or have elevators of inadequate size requiring the installation of new elevators to increase accessibility and capacity. Related studies include the Collegewide Facilities Condition Assessment Update (12/13), a Collegewide Elevator Study (4/05), the Collegewide Master Plan 2013-2023 (2/16), and the Takoma Park/Silver Spring Elevator Update (9/09).

OTHER

FY19 Appropriation: \$906,000 (G.O. Bonds). FY20 Appropriation: \$200,000 (G.O. Bonds).

FISCAL NOTE

The following reallocations were made to this project by Council action in FY19: \$191,000 in G.O. Bonds from Computer Science Alterations (#P046602), \$68,000 in G.O. Bonds from Science West Building Renovation (#P076622), and \$447,000 in G.O. Bonds from Rockville Student Services (#P076604).

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

This project is coordinated with the scheduled building renovations on the Rockville, Takoma Park/Silver Spring and Germantown Campuses., Phase 4 - Takoma Park/Silver Spring Elevator Study, Site Improvements: College (CIP No. P076601)

Energy Conservation: College

(P816611)

Category	Montgomery College	Date Last Modified	05/18/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	2,502	1,920	102	480	80	80	80	80	80	80	-
Site Improvements and Utilities	59	59	-	-	-	-	-	-	-	-	-
Construction	3,025	2,705	50	270	45	45	45	45	45	45	-
Other	132	132	-	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	5,718	4,816	152	750	125	125	125	125	125	125	-

FUNDING SCHEDULE (\$000s)

G.O. Bonds	3,480	2,690	136	654	109	109	109	109	109	109	-
Current Revenue: General	2,138	2,026	16	96	16	16	16	16	16	16	-
State Aid	51	51	-	-	-	-	-	-	-	-	-
Federal Aid	49	49	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	5,718	4,816	152	750	125	125	125	125	125	125	-

OPERATING BUDGET IMPACT (\$000s)

Maintenance		(2,820)	(420)	(440)	(460)	(480)	(500)	(520)
Energy		(7,410)	(1,110)	(1,160)	(1,210)	(1,260)	(1,310)	(1,360)
NET IMPACT		(10,230)	(1,530)	(1,600)	(1,670)	(1,740)	(1,810)	(1,880)
FULL TIME EQUIVALENT (FTE)			1	1	1	1	1	1

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	125	Year First Appropriation	FY81
Appropriation FY 20 Request	125	Last FY's Cost Estimate	5,468
Cumulative Appropriation	4,968		
Expenditure / Encumbrances	4,907		
Unencumbered Balance	61		

PROJECT DESCRIPTION

This project provides funding to (1) continue development of a Collegewide energy management program, (2) implement life-cycle cost effective energy conservation measures based upon energy audits, and (3) review new building/renovation designs for compliance with Montgomery County Code, Ch. 8 Building Energy Performance Standards. Typical project activities include retrofits and modifications of lighting, controls, and HVAC equipment; building envelope modifications; solar energy retrofits; computer equipment for equipment control and energy-use monitoring; HVAC system evaluation/balancing studies; long-range energy/utility planning studies; central plant design plans (Germantown, Rockville, Takoma Park/Silver Spring); and waste management studies. Typical payback on lighting, controls, HVAC and solar energy modifications is five to six years. This project includes one staff position for a Utility Analyst which is in response to increased workload associated with the energy and utility functions, but also the design reviews of major projects, planned lifecycle asset replacements, and capital renewals, as well as complying with laws.

COST CHANGE

Increase is due to the addition of FY23 and FY24.

PROJECT JUSTIFICATION

As mandated by Ch. 8 of the County Code and supported by the College, County Council, the Interagency Committee on Energy & Utility Management (ICEUM), and the Citizens Energy Conservation Advisory Committee (ECAC), an energy cost reduction program has been developed. This program consists of energy audits performed by College staff to identify life cycle cost effective retrofits, including a lighting retrofit program, LEED certification, etc.

OTHER

FY19 Appropriation: Total - \$125,000; \$109,000 (G.O. Bonds), and \$16,000 (Current Revenue: General). FY20 Appropriation: Total - \$125,000; \$109,000 (G.O. Bonds), and \$16,000 (Current Revenue: General). The following fund transfers have been made from this project: \$21,420 to Central Plant Distribution System project (#P886676) (BOT Resolution #90-102, 6/18/90); \$70,000 to Fine Arts Renovation (#P906601) (BOT Resolution #94-114, 9/19/94), \$7,000 to Planning, Design & Construction project (#P906605) (BOT Resolution #01-153, 10/15/01), and \$200,000 to Germantown Bioscience Education Center Project (#P056603)(BOT Resol. #12-06-036, 6/11/12). Beginning in FY98, the portion of this project funded by County Current Revenues migrated to the College's Operating Budget. It is anticipated that migration of this portion of the project will promote a desirable consistency with County budgeting practices and encourage

greater competition in an environment of scarce resources. Reflecting the migration of this portion of the project, the College's Operating Budget includes funds for this effort. New construction and building renovation projects under review during FY19-20 include planning for new buildings on the Rockville and Takoma Park/Silver Spring campuses. Campus utilities master plans are currently being updated to conform to the approved Facilities Master Plan 2013-2023 (2/16).

DISCLOSURES

Expenditures will continue indefinitely. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

This project is coordinated with the scheduled building renovations, and the planned construction of new buildings, on the Rockville, Germantown, and Takoma Park/Silver Spring Campuses., ICEUM & ECAC, Facility Planning: College (CIP No. P886686), Planned Lifecycle Asset Replacement: College (CIP No. P926659), Roof Replacement: College (CIP No. P876664)

Facility Planning: College

(P886686)

Category	Montgomery College	Date Last Modified	05/18/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	7,397	5,094	683	1,620	270	270	270	270	270	270	-
TOTAL EXPENDITURES	7,397	5,094	683	1,620	270	270	270	270	270	270	-

FUNDING SCHEDULE (\$000s)

Current Revenue: General	7,397	5,094	683	1,620	270	270	270	270	270	270	-
TOTAL FUNDING SOURCES	7,397	5,094	683	1,620	270	270	270	270	270	270	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	270	Year First Appropriation	FY88
Appropriation FY 20 Request	270	Last FY's Cost Estimate	6,857
Cumulative Appropriation	5,777		
Expenditure / Encumbrances	5,094		
Unencumbered Balance	683		

PROJECT DESCRIPTION

This project provides funding for campus master plans, and facility planning studies for projects being considered for possible inclusion in the CIP. In addition, facility planning serves as a transition stage for a project between the master plan or conceptual stage, and its inclusion as a stand-alone project, or subproject, in the CIP. Prior to the establishment of a stand-alone project, the College develops a Facility Program/Program of Requirements (POR) that outlines the general facility purpose and need and specific features required on the project. Facility planning is a decision-making process to determine the purpose and need of a candidate project through a rigorous investigation of the following critical project elements: usage forecasts; academic requirements; investigation of non-County sources of funding; and detailed project cost estimates. This project provides for project planning and preliminary design, and allows for the development of a program of requirements in advance of the full programming of a project in the CIP, including the preparation of Part I and II documentation to meet State requirements. Depending upon the results of a facility planning determination of purpose and need, a project may or may not proceed to construction.

COST CHANGE

Increase is due to the addition of FY23 and FY24.

PROJECT JUSTIFICATION

There is a continuing need for the development of accurate cost estimates and an exploration of alternatives for proposed projects. Facility planning costs for all projects which ultimately become stand-alone PDFs are included here. These costs will not be reflected in the resulting individual project. Future individual CIP projects which result from facility planning may each reflect reduced planning and design costs. Relevant studies include the Collegewide Facilities Condition Assessment Update (12/13), and the Collegewide Master Plan 2013-2023 (2/16).

OTHER

FY19 Appropriation: \$270,000 (Current Revenue: General). FY20 Appropriation: \$270,000 (Current Revenue: General). The following fund transfers have been made from this project: \$25,000 to the Information Technology: College project (CIP No. P856509) (BOT Resol. #91-56 - 5/20/91); \$7,000 to Planning, Design & Construction (CIP No. P906605) (BOT Resol. #01-153 - 10/15/01); \$25,000 to Planning, Design and Construction (CIP No. P804064) (BOT Resol. #02-62 - 6/17/02). The following fund transfer has been made to this project: \$28,000 from the South Silver Spring Property Acquisition (CIP No. P016602) (BOT Resol. #03-28 - 4/21/03). By County Council Resol. No. 12-6333, the cumulative project appropriation was reduced by \$187,500 in FY92. By County Council Resolution No. 16-1261, the cumulative appropriation was reduced by \$171,000 (Current Revenue: General) as part of the FY10 savings plan.

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

Collegewide Facilities Master Plan Update, FY18-Facilities Condition Assessment, FY19 -- Germantown Student Services Center Part I/II as submitted to the State.

Germantown Observation Drive Reconstruction

(P096604)

Category	Montgomery College	Date Last Modified	02/09/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Germantown and Vicinity	Status	Final Design Stage

Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	200	91	109	-	-	-	-	-	-	-
Site Improvements and Utilities	800	719	31	50	50	-	-	-	-	-
TOTAL EXPENDITURES	1,000	810	140	50	50	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

G.O. Bonds	1,000	810	140	50	50	-	-	-	-	-
TOTAL FUNDING SOURCES	1,000	810	140	50	50	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	-	Year First Appropriation	FY09
Appropriation FY 20 Request	-	Last FY's Cost Estimate	1,000
Cumulative Appropriation	1,000		
Expenditure / Encumbrances	811		
Unencumbered Balance	189		

PROJECT DESCRIPTION

This project funds the design for reconstruction of the existing main entrance road, and for signage at the Observation Drive/MD-118 entrance into the Campus. On-going repairs to the main road on the Germantown Campus are no longer sufficient and existing conditions require a major reconstruction. Originally constructed in the mid 1970's, this road was largely constructed on grade without the sub-base construction that is now typical for roads with the heavy vehicle and bus traffic that the Campus operations impose.

PROJECT JUSTIFICATION

During the Fall 2014 semester, 7,316 students attended the Germantown campus, and the existing main entrance road (Observation Drive) is inadequate for serving the current and growing student body and requires reconstruction due to the heavy vehicle and bus traffic currently experienced on the campus. According to the Geotechnical Report for Observation Drive Pavement Assessment, problems identified with the existing Observation Drive are the non-existent sub base, longitudinal cracks, alligator cracks, potholes, and raveling. Related studies include the Collegewide Facilities Condition Assessment (12/13), and the Geotechnical Report for Observation Drive Pavement Assessment (5/07).

OTHER

Funding Source: G.O. Bonds.

COORDINATION

Site Improvements: College (CIP No. P076601)

Germantown Science & Applied Studies Phase 1-Renov (P136600)

Category	Montgomery College	Date Last Modified	05/14/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Germantown and Vicinity	Status	Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	4,529	4,050	479	-	-	-	-	-	-	-	-
Construction	31,222	30,777	178	267	267	-	-	-	-	-	-
Other	5,316	-	5,116	200	100	100	-	-	-	-	-
TOTAL EXPENDITURES	41,067	34,827	5,773	467	367	100	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	21,144	17,822	3,146	176	126	50	-	-	-	-	-
State Aid	19,923	17,005	2,627	291	241	50	-	-	-	-	-
TOTAL FUNDING SOURCES	41,067	34,827	5,773	467	367	100	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	267	Year First Appropriation	FY13
Appropriation FY 20 Request	-	Last FY's Cost Estimate	40,685
Cumulative Appropriation	40,800		
Expenditure / Encumbrances	34,943		
Unencumbered Balance	5,857		

PROJECT DESCRIPTION

This project provides for the realignment/renovation of space in the Science and Applied Studies building (65,015 GSF) on the Germantown Campus in accordance with the College's Facilities Master Plan and the building educational space specifications. The renovated building will house open class labs, classrooms, offices and support space related to the physics, engineering, and mathematics departments. The Science and Applied Studies Renovation will occur in two phases. The first phase involves the renovation of the second floor, and a 29,330 GSF building addition, to support the Physics, Engineering, and Mathematics disciplines. There will be vacant space in a portion of the building when various departments move to the Bioscience Education Center, which makes it necessary to renovate this building to support new disciplines. The current building layout is inappropriate for the Physics, Engineering, and Mathematics departments, which makes it necessary to renovate laboratory spaces, classrooms, and faculty and staff offices. This building also has outdated laboratory equipment, which does not properly support the new functions, and technological changes in teaching methods. Programmatic changes are necessary to prepare this building for these uses. The second phase of this project will deal with the renovation of the first floor. Overall growth at the Germantown Campus in combination with the transition to lab instruction for mathematics and engineering expansion has created the demand for additional academic space. Renovation for these disciplines co-locates them near the Bioscience Education Center, creating good programmatic synergy on the campus. Renovation of this facility is contingent on completion of the Bioscience Education Center. Based on student interest, enrollment trends, existing and projected County and State workforce needs, and the teaching and learning strategies, including the final report of The Governor's Science Technology Engineering Mathematics Task Force, Investing in STEM to Secure Maryland's Future, the Germantown Campus will be well positioned to meet the needs of its students and the region. Design funding for this project was appropriated in FY13, and construction funding was appropriated in FY16.

ESTIMATED SCHEDULE

Project construction is scheduled to be completed in the winter of 2019.

COST CHANGE

The approved budget reallocates \$76,000 (G.O.bonds) from the Computer Science Alterations project (P046602) and adds \$191,000 in State matching funds to cover additional costs associated with unforeseen conditions. (The College's Board of Trustees previously transferred \$115,000 in G.O. Bonds from Computer Science Alterations to this project [BOT Resol.#17-11-121, 11/13/17], making to the total shift from Computer Science Alterations \$191,000 in County G.O. Bonds.)

PROJECT JUSTIFICATION

Under the application of the State space guidelines, the enrollment growth on the Germantown Campus has resulted in a significant instructional space deficit. The Germantown Campus has a 2026 projected instructional space deficit of 80,763 NASF and a total space deficit anticipated to be 200,880 NASF. In addition, this project will position the College to address workforce shortages in the Science, Technology, Engineering, and Mathematics fields. This project will impact local and Maryland workforce shortages through educating students to fill technical jobs. Relevant studies include the Collegewide Facilities Master Plan Update (1/16), the Renovation/Addition to Sciences & Applied Studies Building at Montgomery College Germantown Campus, Part 1, Part 2 (3/11), and the Collegewide Master Plan 2013-2023 (2/16).

OTHER

FY19 Appropriation: \$76,000 (G.O. Bonds) and \$191,000 State Aid. Project expenditures assume that a portion of Information Technology (IT) equipment costs may be funded through the Information Technology (No. P856509) project. The construction costs in the expenditure schedule (\$30,840,000) include: site improvement costs (\$2,390,000), building construction costs (\$28,450,000). The building construction cost per gross square foot equals \$438 (\$28,450,000/65,015). The following fund transfer has been made to this project: \$115,000 from the Computer Science Alterations project (P046602) (BOT Resol.#17-11-121 ,11/13/17).

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Facility Planning: College (No. P886686), Bioscience Education Center (No. P056603), Energy Conservation: College (No. P816611), PLAR: College (No. P926659)

Germantown Student Services Center

(P076612)

Category	Montgomery College	Date Last Modified	05/17/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Germantown and Vicinity	Status	Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	9,154	-	-	9,154	-	-	-	6,052	3,102	-	-
Construction	45,695	-	-	22,847	-	-	-	-	-	22,847	22,848
Other	4,730	-	-	-	-	-	-	-	-	-	4,730
TOTAL EXPENDITURES	59,579	-	-	32,001	-	-	-	6,052	3,102	22,847	27,578

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	29,790	-	-	16,001	-	-	-	3,026	1,551	11,424	13,789
State Aid	29,789	-	-	16,000	-	-	-	3,026	1,551	11,423	13,789
TOTAL FUNDING SOURCES	59,579	-	-	32,001	-	-	-	6,052	3,102	22,847	27,578

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	-	Year First Appropriation	
Appropriation FY 20 Request	-	Last FY's Cost Estimate	59,416
Cumulative Appropriation	-		
Expenditure / Encumbrances	-		
Unencumbered Balance	-		

PROJECT DESCRIPTION

This project provides funds for the design and construction of a new student resource center (approximately 95,000 gross square feet) to support both study and student services as outlined in the Germantown Campus Facilities Master Plan, 2013-2023 (2/16). This project provides a comprehensive one-stop shop and brings together the bookstore and Mailroom from the Humanities and Social Sciences Building; Admissions, Student Life and Security from the Science and Applied Studies Building, creating much more space for study and student development. This building will also house the Provost's Office, as well as media and academic computing support functions.

COST CHANGE

The budget assumes the split-funding of construction between FY24 and FY25 (in the Beyond Six-year Period column).

PROJECT JUSTIFICATION

Supported in this facility are the media resources and academic computing functions, including the computer training lab. The advantage for students is the concentration of support resources in a single location. For the campus, space is made available in other buildings that will allow more growth in office and instructional space before another academic building is needed on campus. Under the application of State space guidelines, the enrollment growth on the Germantown campus has resulted in a significant space deficit. The Germantown campus has a fall 2016 space deficit of 96,648 NASF, and a 2026 projected space deficit of 200,880. Relevant studies include the Collegewide Facilities Master Plan 2013-2023 (2/16).

OTHER

Funding Sources: G.O. Bonds and State Aid. State share of project is based on anticipated eligible costs. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The construction costs in the expenditure schedule (\$45,695,000) include: site improvement costs (\$8,862,000), building construction costs (\$36,833,000). The building construction cost per gross square foot equals \$388 (\$36,833,000/95,000).

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Sciences and Applied Studies Building Alterations (CIP# P056605)

Information Technology: College (P856509)

Category	Montgomery College	Date Last Modified	05/14/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	4,247	3,908	339	-	-	-	-	-	-	-	-
Construction	22,025	18,952	73	3,000	500	500	500	500	500	500	-
Other	150,052	93,016	9,759	47,277	7,277	8,000	8,000	8,000	8,000	8,000	-
TOTAL EXPENDITURES	176,324	115,876	10,171	50,277	7,777	8,500	8,500	8,500	8,500	8,500	-

FUNDING SCHEDULE (\$000s)											
Current Revenue: General	111,764	51,316	10,171	50,277	7,777	8,500	8,500	8,500	8,500	8,500	-
Recordation Tax	57,916	57,916	-	-	-	-	-	-	-	-	-
G.O. Bonds	4,603	4,603	-	-	-	-	-	-	-	-	-
PAYGO	2,041	2,041	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	176,324	115,876	10,171	50,277	7,777	8,500	8,500	8,500	8,500	8,500	-

OPERATING BUDGET IMPACT (\$000s)											
FULL TIME EQUIVALENT (FTE)					4	4	4	4	4	4	4

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	5,877	Year First Appropriation	FY85
Appropriation FY 20 Request	8,500	Last FY's Cost Estimate	161,947
Cumulative Appropriation	127,947		
Expenditure / Encumbrances	119,299		
Unencumbered Balance	8,648		

PROJECT DESCRIPTION

This project provides for the design, development, installation/construction, and support of College Information Technology (IT) systems including enterprise-wide data, voice, and video applications; cybersecurity; cloud-based software services; and other related software applications used for administrative and academic support; associated cabling systems, equipment closets, and IT space construction; and the replacement/upgrade of IT equipment to meet current requirements. The project includes planning, installation, and furnishing of audio/visual and computing technology in classrooms, labs, and offices throughout three campuses and multiple workforce development centers. These systems support and enhance the College's mission, its instructional programs, and student services including counseling, admissions, registration, etc. They also meet administrative computing requirements for finance, human resources, institutional advancement, workforce development and continuing education, and are implemented in accordance with collegewide strategic planning efforts. The Office of Information Technology (OIT) determines and recommends the hardware, software, and services to be purchased. Four technical staff positions are funded by this project.

COST CHANGE

The FY18 Savings Plan reduced FY18 funding and expenditures by \$1,900,000 in Current Revenue: General. FY19 reduction of \$723,000 is due to County affordability constraints. Increases in FY23 and FY24 due to addition of years to the six-year period.

PROJECT JUSTIFICATION

To meet current and projected needs, and to remain current with changing technical standards and expectations for data, video, and voice communications, the College plans and installs IT, telecommunications, audio/visual, and instructional systems at each campus, the central administration building, and all remote instructional sites. The new systems allow replacement of legacy systems for data and video applications; provide for updated networking capabilities; provide necessary security and monitoring capabilities; establish learning centers in classrooms, labs, and for distributed instruction; and allow expanded opportunities for linking with external information technology services. State-of-the-market hardware and software capabilities and cloud services are required to attract and serve students, faculty and staff, as well as to serve the business community by upgrading work force technology skills and providing a base for continued economic development in the county. Information technology directly enables the College's mission and is used to facilitate student success; to effectively and efficiently operate the College; and to support the College's growth, development, and community initiatives.

OTHER

FY19 Appropriation: \$5,877,000 (Current Revenue: General). FY20 Appropriation: \$8,500,000 (Current Revenue: General). The following fund transfers have been made from this project: \$1,300,000 to the Takoma Park Campus Expansion project (CIP No. P996662) (BOT Resol. #07-01-005, 1/16/2007); \$300,000 to the Student Learning Support Systems project (CIP No. P076617); and \$2,500,000 to the Network Operating Center project (#P076618)(BOT Resol. #12-06-037, 6/11/12). The following fund transfers have been made to this project: \$111,000 from the Planning, Design and Construction project (CIP No. P906605), and

\$25,000 from the Facilities Planning: College project (CIP No. P886886) to this project (BOT Resol. #91-56, 5/20/1991); the project appropriation was reduced by \$559,000 in FY92.

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

MC2020 Strategic Plan, Academic Master Plan (2015), Facilities Master Plan 2013-2023 (2/16), Information Technology Master Plan, Student Affairs Master Plan (draft), and campus building renovation projects. Expenditures are made in alignment with the priorities and guidelines established by these documents.

Instructional Furniture and Equipment: College (P096601)

Category	Montgomery College	Date Last Modified	05/18/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

Other	4,260	2,209	431	1,620	270	270	270	270	270	270	-
TOTAL EXPENDITURES	4,260	2,209	431	1,620	270	270	270	270	270	270	-

FUNDING SCHEDULE (\$000s)

Current Revenue: General	4,260	2,209	431	1,620	270	270	270	270	270	270	-
TOTAL FUNDING SOURCES	4,260	2,209	431	1,620	270	270	270	270	270	270	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	270	Year First Appropriation	FY09
Appropriation FY 20 Request	270	Last FY's Cost Estimate	3,720
Cumulative Appropriation	2,640		
Expenditure / Encumbrances	2,209		
Unencumbered Balance	431		

PROJECT DESCRIPTION

This project provides funding for new and replacement instructional furniture and equipment to support academic programs, improve classroom and lab functionality, and upgrade equipment to meet instructional requirements. New and replacement furniture and equipment will be provided in classroom, laboratory, and/or instructional support settings. General instructional furniture includes such items as tables, chairs, stools, laboratory cabinetry, white boards, and other display boards, that typically occur in classrooms, labs, and instructional support spaces. Instructional equipment, for example, may include microscopes, autoclaves, weight equipment, pottery kilns, and other types of equipment used for teaching, experimentation, and/or research.

COST CHANGE

Increase is due to the addition of FY23 and FY24.

PROJECT JUSTIFICATION

Instructional furniture and equipment necessary for classes and labs typically has a replacement cycle of 10 years or more depending upon level of usage. Existing furniture and equipment across the College is often outdated or inadequate, necessitating a major replacement effort. In addition, new instructional endeavors may also require the purchase of furniture and equipment to support the academic program. New and replacement instructional furniture and equipment is necessary to support the academic success of students and provide faculty with the tools for student learning. Relevant studies include the Montgomery College Academic Master Plan (2015).

OTHER

FY19 Appropriation: \$270,000 (Current Revenue: General). FY20 Appropriation: \$270,000 (Current Revenue: General).

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

Montgomery College Academic Master Plan (2015)

Macklin Tower Alterations

(P036603)

Category	Montgomery College	Date Last Modified	02/22/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Rockville	Status	Under Construction

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	1,591	831	760	-	-	-	-	-	-	-	-
Construction	9,013	4,333	2,680	2,000	2,000	-	-	-	-	-	-
TOTAL EXPENDITURES	10,604	5,164	3,440	2,000	2,000	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	10,604	5,164	3,440	2,000	2,000	-	-	-	-	-	-
TOTAL FUNDING SOURCES	10,604	5,164	3,440	2,000	2,000	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)				
Appropriation FY 19 Request	-	Year First Appropriation		FY03
Appropriation FY 20 Request	-	Last FY's Cost Estimate		10,604
Cumulative Appropriation	10,604			
Expenditure / Encumbrances	5,164			
Unencumbered Balance	5,440			

PROJECT DESCRIPTION

This project provides funding for major building infrastructure improvements to Macklin Tower including replacement of major mechanical, electrical, and plumbing systems and equipment; upgrade/replacement of life safety systems (fire alarm, emergency generator and sprinkler systems); upgrade/replacement of building elevators; and building access upgrades. The College completed a facilities condition assessment of the building in August 2002 that evaluated all building systems and related equipment and identified major repair and/or replacement requirements.

ESTIMATED SCHEDULE

Project construction is scheduled to be completed in the Fall of 2019.

PROJECT JUSTIFICATION

Macklin Tower was constructed in 1971 and this forty-two year old facility is experiencing a progressive deterioration of building systems and major pieces of building equipment. It has now reached the point that addressing the problem of a deteriorating building infrastructure is beyond the scope of a maintenance effort and that building repairs are no longer adequate or cost effective. Key components of the HVAC, mechanical and electrical systems are outdated, energy inefficient, and costly to continue to repair. The refurbishment and/or replacement of major building systems and related equipment will significantly extend the useful life of the building and correct safety and environmental problems. This project is coordinated with the College's FY02 supplemental appropriation request to the PLAR project (CIP #P926659) to correct significant water and air infiltration problems with a failing exterior curtain wall framing system and a deteriorating sealant used on all of the building's windows. The College completed a building condition assessment in 2002 that provides a detailed evaluation of building deficiencies and initial cost estimates for major repairs, equipment replacements, and related improvements. Schematic Design for Curtain Wall Remediation - Macklin Tower (5/25/01) and Curtain Wall and Building Envelope Investigation - Macklin Tower (3/16/01). Collegewide Facilities Condition Assessment (12/13) and Collegewide Master Plan 2013-2023 (2/16).

OTHER

Funding Source: G.O. Bonds. The following fund transfer has been made from this project: \$400,000 to the Takoma Park Campus Expansion Project (# 996662) (BOT Resol. # 07-01-005, 01/16/07).

FISCAL NOTE

In December 2001, the County Council approved an FY02 supplemental capital budget appropriation of \$2,075,000 to the PLAR project (CIP #P926659) to replace the building's exterior curtain wall to correct problems associated with a failing exterior curtain wall framing system and a deteriorating window sealant. The exterior curtain wall replacement was completed in spring 2003. An engineering evaluation of the building's fire alarm system and emergency generator was completed in August 2002 and a design/build replacement of this system and equipment was completed in summer 2003 for the tower. Mechanical and electrical equipment upgrades of floors 2-6 in the tower have been completed (2004/2005). The current focus is mechanical, electrical and plumbing upgrades for the ground floor.

COORDINATION

Energy Conservation: College (CIP No. P816611), Planned Lifecycle Asset Replacement: College (CIP No. P926659), Roof Replacement: College (CIP No.

Network Infrastructure and Server Operations

(P076619)

Category	Montgomery College	Date Last Modified	05/22/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	5,704	4,329	295	1,080	180	180	180	180	180	180	-
Construction	1,974	1,303	71	600	100	100	100	100	100	100	-
Other	31,639	8,387	2,532	20,720	3,120	3,520	3,520	3,520	3,520	3,520	-
TOTAL EXPENDITURES	39,317	14,019	2,898	22,400	3,400	3,800	3,800	3,800	3,800	3,800	-

FUNDING SCHEDULE (\$000s)											
Current Revenue: General	37,897	12,599	2,898	22,400	3,400	3,800	3,800	3,800	3,800	3,800	-
Recordation Tax	1,420	1,420	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	39,317	14,019	2,898	22,400	3,400	3,800	3,800	3,800	3,800	3,800	-

OPERATING BUDGET IMPACT (\$000s)											
FULL TIME EQUIVALENT (FTE)					6	6	6	6	6	6	

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	3,400	Year First Appropriation	FY07
Appropriation FY 20 Request	3,800	Last FY's Cost Estimate	24,117
Cumulative Appropriation	16,917		
Expenditure / Encumbrances	14,507		
Unencumbered Balance	2,410		

PROJECT DESCRIPTION

This project supports the ongoing installation and maintenance of the information technology (IT) network infrastructure throughout all Montgomery College facilities, as well as on-premise server operations for applications not suitable for cloud computing. The network-related infrastructure includes cable distribution systems (conduit, fiber optics, wiring); equipment such as routers, switches, wireless access points, firewalls, intrusion detection and prevention devices; network management systems, specialized technology tools, monitoring systems, and diagnostic equipment; and remote access technologies. Also included are telephone systems, emergency notification systems, building management systems, and video security systems. The scope of the project includes the associated electrical, environmental, and backup systems needed to ensure the reliable operation of all equipment. On-premise server operations are supported through the maintenance of a primary data center on the Takoma Park/Silver Spring (TP/SS) campus, and a backup data center on the Rockville campus. Associated with the TP/SS data center is the College's Network Operating Center (NOC), where staff maintain server and network equipment and provide 24/7 monitoring of all College IT systems and services to ensure proper functioning and performance. This includes instructional and administrative applications and all network and Internet-related services used in support of both credit and non-credit programs. This project funds six positions. Note: The Network Operating Center/Datacenter project's (P076618) FY19 and beyond funding requests and work years have been added to this project. In addition, the project name has changed from Network Infrastructure Support Systems to Network Infrastructure and Server Operations.

COST CHANGE

Increase is due to the addition of FY23 and FY24, partially offset by a FY19 reduction of \$400,000 due to County affordability constraints.

PROJECT JUSTIFICATION

The College networks used for all forms of data, voice, video, and machine communication must be maintained and upgraded continuously to ensure no College location is without the necessary technology capabilities and support. This requires planned replacement and upgrades as technology evolves. As faculty continue to develop more learning programs and methods to meet the increased expectations of students, the technology needs also evolve and change. Without meeting the expectations and requirements developed in the various College strategic and master planning documents, the College will fall behind in its ability to provide needed technology at the appropriate time. State-of-the-market hardware and software capabilities and cloud services are required to attract and serve students, faculty and staff, as well as to serve the business community by upgrading work force technology skills and providing a base for continued economic development in the county. Information technology directly enables the College's mission and is used to facilitate student success; to effectively and efficiently operate the College; and to support the College's growth, development, and community initiatives.

OTHER

FY19 Appropriation: \$3,400,000 (Current Revenue: General). FY20 Appropriation: \$3,800,000 (Current Revenue: General). The following fund transfers/reductions have occurred with this project: By County Council Resolution No. 16-1261, the cumulative appropriation was reduced by \$533,000 (Current

Revenue: General) as part of the FY10 savings plan; \$800,000 to the Network Operating Center project (#P076618)(BOT Resol. #12-06-037,6/11/12).

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

MC2020 Strategic Plan, Academic Master Plan (2015), Facilities Master Plan 2013-2023 (2/16), Information Technology Master Plan, Student Affairs Master Plan (draft), and campus building renovation projects. Expenditures are made in alignment with the priorities and guidelines establish by these documents.

Network Operating Center/Datacenter (P076618)

Category	Montgomery College	Date Last Modified	05/22/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Silver Spring and Vicinity	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	3,009	2,767	242	-	-	-	-	-	-	-	-
Construction	8,723	8,670	53	-	-	-	-	-	-	-	-
Other	14,822	12,776	2,046	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	26,554	24,213	2,341	-	-	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
Current Revenue: General	15,261	12,920	2,341	-	-	-	-	-	-	-	-
Recordation Tax	11,293	11,293	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	26,554	24,213	2,341	-	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)				
Appropriation FY 19 Request	-		Year First Appropriation	FY07
Appropriation FY 20 Request	-		Last FY's Cost Estimate	34,554
Cumulative Appropriation	26,554			
Expenditure / Encumbrances	24,213			
Unencumbered Balance	2,341			

PROJECT DESCRIPTION

The purpose of this project is to establish and maintain a datacenter and network operating center on the Takoma Park/Silver Spring campus and a related backup facility on the Rockville campus, and to provide for planned lifecycle technology replacements. The datacenter and network operating center houses the technology from which control is exercised and services provided by the College's instructional, academic, and administrative computing systems. Included in the scope of this project are the electrical, environmental, backup and security systems which are used to operate the NOC/datacenter. This project also funds two staff positions which monitor the physical security, cybersecurity, disaster recovery and redundant systems to help ensure the integrity of the datacenters.

COST CHANGE

Beginning in FY19, the \$2.0 million per year funding request and the 2.0 full-time equivalent positions are moved to the Network Infrastructure Support Systems project.

PROJECT JUSTIFICATION

The datacenter and network operating center located on the Takoma Park/Silver Spring campus, and the backup facility located on the Rockville campus, provide the College with monitoring of computing and network services, high availability and disaster recovery, and physical and network security. Planned lifecycle asset replacement and upgrades are critical components of maintaining state-of-the-market hardware and software systems. State-of-the-market hardware and software capabilities and cloud services are required to attract and serve students, faculty and staff, as well as to serve the business community by upgrading work force technology skills and providing a base for continued economic development in the county. Information technology directly enables the College's mission and is used to facilitate student success; to effectively and efficiently operate the College; and to support the College's growth, development, and community initiatives.

OTHER

Funding Source: Current Revenue: General and Current Revenue: Recordation Tax. By County Council Resolution No. 16-1261, the cumulative appropriation was reduced by \$146,000 (Current Revenue: General) as part of the FY10 savings plan. The following fund transfers have been made to this project: \$800,000 from the Network Infrastructure Support System project (#P076619), \$2,500,000 from the Information Technology project (#P856509)(BOT Resol. #: 12-06-037, 6/11/12).

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

Cafritz Foundation Arts Center (CIP No. P056604), Computer Science Alterations (CIP No. P046602), Germantown Science and Applied Studies Phase 1 - Renovation (CIP No. P136600). MC2020 Strategic Plan, Academic Master Plan (2015), Facilities Master Plan 2013-2023 (2/16), Information Technology Master Plan, Student Affairs Master Plan (draft), and campus building renovation projects. Expenditures are made in alignment with the priorities and guidelines established by these documents.

Planned Lifecycle Asset Replacement: College

(P926659)

Category	Montgomery College	Date Last Modified	03/23/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	8,313	4,782	1,131	2,400	400	400	400	400	400	400	-
Construction	67,410	40,740	5,070	21,600	3,600	3,600	3,600	3,600	3,600	3,600	-
Other	310	294	16	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	76,033	45,816	6,217	24,000	4,000	4,000	4,000	4,000	4,000	4,000	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	74,093	43,876	6,217	24,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Current Revenue: General	1,940	1,940	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	76,033	45,816	6,217	24,000	4,000	4,000	4,000	4,000	4,000	4,000	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	4,000	Year First Appropriation	FY93
Appropriation FY 20 Request	4,000	Last FY's Cost Estimate	66,172
Cumulative Appropriation	52,033		
Expenditure / Encumbrances	45,926		
Unencumbered Balance	6,107		

PROJECT DESCRIPTION

This project provides funding for a comprehensive lifecycle renewal and replacement program to protect the investment in College facilities and equipment and to meet current safety and environmental requirements. Funding also provides for project management contract services. This collegewide project is targeted at deteriorating facilities and deferred maintenance of major building systems. This project includes: (1) HVAC system renovation/replacement; (2) major mechanical/plumbing equipment renovation/replacement; (3) interior and exterior lighting system renovation/replacements; (4) electrical service/switchgear renovation/replacement; (5) building structural and exterior envelope refurbishment; (6) asbestos removals not tied to building renovations; (7) major carpet replacement; (8) underground petroleum tank upgrades; and (9) site utility, and site infrastructure replacement/ improvements. Note: The Life Safety Systems project, (CIP No. P046601), has been merged into this project. This project also provides design and construction funding for the correction of life safety and fire code deficiencies identified in the Collegewide Facilities Condition Audit. The scope of this project includes the installation and/or replacement of fire alarm systems, fire sprinkler systems, smoke control systems, emergency power systems, emergency lighting systems, public address systems, and similar equipment and operations.

COST CHANGE

FY19 increases by \$1,861,000 in G.O. Bonds by transferring available funds from Science West Building Renovation (#P076622).

PROJECT JUSTIFICATION

In November 2007 (December 2013 update), the College updated a comprehensive building system/equipment assessment, including site utilities and improvements, that identified deficiencies, prioritized replacements and upgrades, and provided the framework for implementing a systematic capital renewal program to complement on-going preventive maintenance efforts. The College continues to have a significant backlog of major building systems and equipment renovations and/or replacements due to the age of the Campuses and deferral of major equipment replacement. Key components of the HVAC, mechanical and electrical systems are outdated, energy inefficient, and costly to continue to repair. The renovation and/or replacement of major building systems, building components and equipment, and site improvements will significantly extend the useful life of the College's buildings and correct safety and environmental problems. The Collegewide Facilities Condition Assessment Update (12/13) identified a \$85 million deferred maintenance backlog for the three campuses. If additional financial resources are not directed at this problem, facilities will continue to deteriorate leading to higher cost renovations or building replacements. The Collegewide Facilities Condition Audit identified various life safety concerns on all three campuses. This project allows the College to address the concerns, replacing and/or installing appropriate life safety or fire code measures, and ensuring compliance with applicable life safety, fire, and building codes. Other relevant plans and studies include the Collegewide Master Plan 2013-2023 (2/16), and the County Council Report of the Infrastructure Maintenance Task Force (3/16).

OTHER

FY19 Appropriation: \$4,000,000 (G.O. Bonds). FY20 Appropriation: \$4,000,000 (G.O. Bonds). The following fund transfers have been made from this project: \$47,685 to Takoma Park Child Care Center (CIP No. P946657) (BOT Resol. #93-106, #94-26 & #941-28); \$185,000 to Rockville Surge Building (CIP No. P966665) (BOT Resol. #11-2291 - 1/21/97); \$7,000 to Planning, Design & Construction (CIP No. P906605) (BOT Resol. #01-153); \$91,175 to the Art Building Renovation Project (CIP No. P906608) (BOT Resol. # 06-09-106 - 9/18/06); and \$250,000 to the Takoma Park Expansion Project (CIP No. P996662) (BOT Resol. #07-01-005 - 1/16/07). The following fund transfers have been made into this project: \$15,000 from Central Plant Distribution System (CIP No.

Planning, Design & Construction

(P906605)

Category	Montgomery College	Date Last Modified	05/18/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	29,638	19,136	2,598	7,904	1,353	1,353	1,246	1,246	1,353	1,353	-
Construction	9,012	6,420	-	2,592	443	443	410	410	443	443	-
TOTAL EXPENDITURES	38,650	25,556	2,598	10,496	1,796	1,796	1,656	1,656	1,796	1,796	-

FUNDING SCHEDULE (\$000s)											
Current Revenue: General	19,970	13,703	1,299	4,968	828	828	828	828	828	828	-
G.O. Bonds	18,680	11,853	1,299	5,528	968	968	828	828	968	968	-
TOTAL FUNDING SOURCES	38,650	25,556	2,598	10,496	1,796	1,796	1,656	1,656	1,796	1,796	-

OPERATING BUDGET IMPACT (\$000s)											
FULL TIME EQUIVALENT (FTE)					16	16	16	16	16	16	

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	1,796	Year First Appropriation	FY90
Appropriation FY 20 Request	1,796	Last FY's Cost Estimate	34,778
Cumulative Appropriation	28,154		
Expenditure / Encumbrances	27,066		
Unencumbered Balance	1,088		

PROJECT DESCRIPTION

This project provides for sixteen full time positions in the Division of Facilities and Security Office. These positions plan, design, manage and implement the College's capital program which extends beyond the current six years. These sixteen positions are broken down into 3 categories: Project Management Staff; Design Staff; and Construction Staff. The positions categorized as Project Management Staff are Project Managers (7), and Project Support Staff (1). The Project Managers are responsible for budget development, program planning, and project management through to completion. The Project Support Staff supports the goals of the Project Managers. The positions categorized as Design Staff are Architect (2), Engineer (1), GIS Coordinator (1), and Architectural Drafter/Designer (1). The final category is Construction Staff, which consists of a Construction Services Supervisor (1), and Construction Trades Workers (2), who are responsible for completing small, in-house construction projects.

COST CHANGE

Increases in FY19 and FY20 are due to the 3% salary increase approved during the FY18 budget cycle, including increases in the cost of health insurance and other salary costs. The increases are funded by reallocating \$280,000 in G.O. Bonds from the Science West Building Renovation project (#P076622). FY23 and FY24 represent years that are new to the six-year period and also reflect an increase using capacity available from a re-oriented renovation schedule in the Collegewide Library Renovation (#P661901).

PROJECT JUSTIFICATION

The above staff supports the increased work load associated with the College's CIP and complements the existing staff expertise. The College's CIP has increased substantially since the mid-1980s and the then existing staff could no longer support the additional projects.

OTHER

FY19 Appropriation: \$1,796,000; \$968,000 (G.O. Bonds) and \$828,000 (Current Revenue: General). FY20 Appropriation: \$1,796,000; \$968,000 (G.O. Bonds) and \$828,000 (Current Revenue: General). The following fund transfers have been made from this project: \$111,000 to Information Technology (#P856509) (BOT Resol. #91-56; \$400,000 to the Takoma Park Expansion project (#996662) (BOT Resol. #07-01-005, 1/16/07). The following fund transfer has been made into this project: \$28,000 (\$7,000 each) from ADA Compliance (#P936660), Energy Conservation (#P816611), Facility Planning (#P886686), PLAR (#P926659) (BOT Resol. #01-153), and \$150,000 from the Takoma Park Campus Expansion (#P996662) (BOT Resol.#11-06-078, 06-20-11), \$700,000 from the Bioscience Education Center project (#P056603) (BOT Resol. #16-04-051, 4/18/16). In addition, \$280,000 in G.O. Bonds was reallocated from the Science West Building Renovation project (#P076622) by Council action in FY19. During FY87-89, certain personnel costs were charged to individual capital projects. As some staff work is required on every capital project, separately identifying staff funding is an efficient and cost effective method of management for the College and provides a clear presentation of staff costs.

DISCLOSURES

Expenditures will continue indefinitely.

P886676) (BOT Resol. #98-82 - 6/15/98), \$25,000 from Clean Air Act (CIP No. P956643) (BOT Resol. # 98-82 - 6/15/98), \$24,000 from the Rockville Campus Science Center Project (CIP No. P036600) (BOT Resol. # 15-03-025 - 03/23/15); and \$1,861,000 in G.O. Bonds from Science West Building Renovation (#P076622). Beginning in FY98, the portion of this project funded by County Current Revenues migrated to the College's Operating Budget. Reflecting the migration of this portion of the project, the College's Operating Budget includes funds for this effort. The following fund transfer has been made from this project: \$67,000 to the Commons Building Renovation Project (CIP No. P056601) (BOT Resolution #10-08-057, 07/31/10). In FY19, \$1,861,000 was transferred from available balances elsewhere in the College's capital budget,

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

This project is coordinated with Utility Master Plans and building renovations on the Rockville, Germantown, and Takoma Park/Silver Spring Campuses; and the following projects:, Capital Renewal: College (CIP No. P096600), Elevator Modernization: College (CIP No. P046600), Energy Conservation: College (CIP No. P816611), Facility Planning: College (CIP No. P886686), Macklin Tower Alterations (CIP No. P036603), Roof Replacement: College (CIP No. P876664), Computer Science Alterations (CIP No. P046602).

Rockville Parking Garage (P136601)

Category	Montgomery College	Date Last Modified	02/14/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Rockville	Status	Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	3,200	2,487	713	-	-	-	-	-	-	-	-
Construction	26,500	25,466	834	200	100	100	-	-	-	-	-
TOTAL EXPENDITURES	29,700	27,953	1,547	200	100	100	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	16,450	15,737	713	-	-	-	-	-	-	-	-
Revenue Authority	13,250	12,216	834	200	100	100	-	-	-	-	-
TOTAL FUNDING SOURCES	29,700	27,953	1,547	200	100	100	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)				
Appropriation FY 19 Request	-		Year First Appropriation	FY15
Appropriation FY 20 Request	-		Last FY's Cost Estimate	29,700
Cumulative Appropriation	29,700			
Expenditure / Encumbrances	27,959			
Unencumbered Balance	1,741			

PROJECT DESCRIPTION

This project provides design and construction funding for a 922 space parking garage on the Rockville Campus. The proposed 7 level parking garage will be located north of the Physical Education Building, and will be built on 120 existing parking spaces for a net gain of 802 spaces. The exposed north and west walls will be screened with plantings or architectural elements, while the south side will be adjacent to the PE addition.

ESTIMATED SCHEDULE

Project construction was completed in January 2017.

PROJECT JUSTIFICATION

The Rockville Campus currently has 3,497 spaces but needs 5,639 spaces resulting in a deficit of 2,142 spaces (Fall 2014). This deficit is only expected to get worse within the next 10 years with an increase to 3,930 spaces. The parking deficit must be addressed, or this could adversely effect student enrollment at Montgomery College. Related studies include the Collegewide Master Plan 2013-2023 (2/16), and a Collegewide Parking Analysis Montgomery College Maryland, (Desman Associates, 3/06).

OTHER

Funding Sources: G.O. Bonds, and Revenue Authority.

DISCLOSURES

A pedestrian impact analysis has been completed for this project.

COORDINATION

City of Rockville, Montgomery County Revenue Authority, Rockville Student Services Center (CIP #P076604)

Rockville Student Services Center

(P076604)

Category	Montgomery College	Date Last Modified	05/17/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Rockville	Status	Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	10,369	6,401	3,968	-	-	-	-	-	-	-	-
Construction	53,716	424	53,292	-	-	-	-	-	-	-	-
Other	9,475	-	-	9,475	9,475	-	-	-	-	-	-
TOTAL EXPENDITURES	73,560	6,825	57,260	9,475	9,475	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	37,927	3,729	28,472	5,726	5,726	-	-	-	-	-	-
State Aid	35,633	3,096	28,788	3,749	3,749	-	-	-	-	-	-
TOTAL FUNDING SOURCES	73,560	6,825	57,260	9,475	9,475	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)				
Appropriation FY 19 Request		9,475	Year First Appropriation	FY13
Appropriation FY 20 Request		-	Last FY's Cost Estimate	75,254
Cumulative Appropriation		64,085		
Expenditure / Encumbrances		56,021		
Unencumbered Balance		8,064		

PROJECT DESCRIPTION

This project provides funds for the construction of a new student services center (127,960 gross square feet) to support student administrative services as outlined in the Rockville Campus Facilities Master Plan, 2013-2023 (2/16). This project brings together student and administrative services to support the concept of one stop shopping services for students. Specifically, it will include the following campus related functions and activities: Admissions and Registration, Financial Aid, Cashier, Dean of Student Development, Career Transfer Center, Assessment, Counseling, Disabled Student Services (DSS), and Trio program plus support services such as a training facility, storage, resource library and waiting areas. In addition, this building will house the Office of Safety and Security and a new parking department. This project also includes funding for a central plant located in the Student Services Center and funding for a road extension/site improvements related to the building.

ESTIMATED SCHEDULE

Project construction is scheduled to be completed in the fall 2019.

COST CHANGE

Project expenditures assume that a portion of Information Technology (IT) equipment costs may be funded through the Information Technology (No. P856509) project. The College reduced funding and expenditures by \$1,694,000 (\$847,000 each for State Aid and G.O. Bonds) to reflect the State's approved equipment funding.

PROJECT JUSTIFICATION

Currently, these intake functions are fragmented and are insufficiently accommodated: Student Development is located in the Counseling & Advising Building; the assessment program is located in Campus Center; Admissions, Registration and Financial Aid are located in the Student Services Building. Bringing these functions under one roof will be of great benefit to students by increasing the efficiency of the intake operations. Relevant studies include the Collegewide Facilities Condition Assessment (12/13), the Collegewide Master Plan 2013-2023 (2/16), and the Rockville Student Services Center Part 1/Part 2 (5/11).

OTHER

FY19 Appropriation: \$9,475,000 Total: \$5,726,000 (G.O. Bonds), and \$3,749,000 (State Aid). FY20 Appropriation: \$0. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The construction costs in the expenditure schedule (\$53,712,000) include: site improvement costs (\$9,553,000), building construction costs (\$44,159,000). The building construction cost per gross square foot equals \$348 (\$44,159,000/126,756).

DISCLOSURES

A pedestrian impact analysis will be performed during design or is in progress. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Facility Planning: College (CIP #P886686)

Roof Replacement: College

(P876664)

Category	Montgomery College	Date Last Modified	05/14/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	1,505	1,068	6	431	200	33	33	33	66	66	-
Construction	10,310	5,821	1,170	3,319	1,800	217	217	217	434	434	-
TOTAL EXPENDITURES	11,815	6,889	1,176	3,750	2,000	250	250	250	500	500	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	9,364	4,438	1,176	3,750	2,000	250	250	250	500	500	-
Current Revenue: General	1,248	1,248	-	-	-	-	-	-	-	-	-
State Aid	1,203	1,203	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	11,815	6,889	1,176	3,750	2,000	250	250	250	500	500	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	2,000	Year First Appropriation	FY87
Appropriation FY 20 Request	250	Last FY's Cost Estimate	9,065
Cumulative Appropriation	8,065		
Expenditure / Encumbrances	6,940		
Unencumbered Balance	1,125		

PROJECT DESCRIPTION

This project provides for the replacement/major repair of roofs and entrance canopies on buildings at all three campuses, including the addition of roof insulation as part of the replacement work. Project costs are based on comprehensive roof surveys of all College buildings completed in 2008. An update to this survey is underway, and anticipated to be completed in FY18.

COST CHANGE

Increase in FY19 is due to the need for a new roof on the Rockville Physical Education Building, with \$813,000 in G.O. Bonds reallocated from the Germantown Bioscience Education Center project (#P056603) and \$937,000 reallocated from Science West Building Renovation (#P076622). Additions in FY23 and FY24 are for new years in the six-year period and reflect an increase to the level of effort.

PROJECT JUSTIFICATION

The College has implemented a roof replacement/renovation program to respond to the aging of building roofs. The program provides for the periodic evaluation of roofs on a four year cycle. The current roof replacement/major repair schedule delineates specific building projects. Roofs requiring major renovation are generally ten years or older in age. In the initial replacement cycle, approximately 33% of the construction cost is for the addition of roof insulation on each building. Added insulation results in an average five year payback due to reduced energy costs and lower replacement costs of mechanical equipment retrofits in building renovations. This project is coordinated with the College's building renovation program and with the replacement of major roof-top building equipment. Related studies include the Collegewide Roof Surveys Update (pending fall 2017), a Collegewide Facilities Condition Assessment Update (12/13) and the Collegewide Master Plan 2013-2023 (2/16).

OTHER

FY19 Appropriation: \$2,000,000(G.O. Bonds). FY20 Appropriation: \$500,000 (G.O. Bonds). By County Council Resolution #12-663, the cumulative project appropriation was reduced by \$65,000 in FY92. In addition, the State share was reduced by \$65,000 in FY92. FY87-FY91, and FY93 project funding was 100% current revenue. FY92 funding was current revenue and State aid. No appropriations were made to this project in FY94 and FY95. In FY96, funding was changed to G.O Bonds and State aid. State aid applies only to roof replacement design and construction. Roof surveys are 100% County G.O. Bond funded. In FY19, \$813,000 in G.O. Bonds was reallocated from the Bioscience Education Center project (#P056603) and \$937,000 in G.O. Bonds were reallocated from the Science West Building Renovation project (#P076622).

DISCLOSURES

Expenditures will continue indefinitely. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Energy Conservation (CIP No. P816611), Planned Lifecycle Asset Replacement: College (CIP No. P926659), FY18 -- Collegewide Roof Surveys & Major

Repairs, which will also determine next sequence of projects.

Science West Building Renovation

(P076622)

Category	Montgomery College	Date Last Modified	05/17/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Rockville	Status	Final Design Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	3,162	3,055	107	-	-	-	-	-	-	-	-
Construction	25,363	24,160	1,203	-	-	-	-	-	-	-	-
Other	3,675	2,212	1,463	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	32,200	29,427	2,773	-	-	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
State Aid	16,461	13,698	2,763	-	-	-	-	-	-	-	-
G.O. Bonds	15,739	15,729	10	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	32,200	29,427	2,773	-	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)				
Appropriation FY 19 Request	-		Year First Appropriation	FY09
Appropriation FY 20 Request	-		Last FY's Cost Estimate	35,346
Cumulative Appropriation	35,346			
Expenditure / Encumbrances	31,376			
Unencumbered Balance	3,970			

PROJECT DESCRIPTION

This project (total 70,164 GSF) provides for the realignment/renovation of space in the Science West Building (41,988 GSF), and for the addition of a third floor (28,176 GSF) on the Rockville Campus in accordance with the College's Facilities Master Plan (1/04) and the building educational space specifications. The renovated building will house the Math department faculty offices and the Math Learning Center. The building renovation will include general building improvements, HVAC system replacement and related energy conservation measures, and building access improvements. The addition will add a third floor to the Science West building to provide additional classroom support to address instructional space deficits at the Rockville Campus. A building survey in FY91 determined that the building structure is fireproofed with a sprayed on asbestos product and asbestos thermal insulation is used on the mechanical systems. An asbestos removal is determined to be the most appropriate response under Federal and State asbestos guidelines. The removal project will include mechanical system reinsulation and re-fireproofing in conformance with the local fire code.

ESTIMATED SCHEDULE

Project construction was completed during winter 2017.

COST CHANGE

Funds no longer needed in this project of \$3,146,000 in G.O. Bonds were reallocated to: Planned Lifecycle Asset Replacement: College (#P926659), \$1,861,000 in G.O. Bonds; Planning, Design, and Construction (#P906605), \$280,000 in G.O. Bonds; Roof Replacement: College (#P876664), \$937,000 in G.O. Bonds; and Elevator Modernization (#P056608), \$68,000 in G.O. Bonds.

PROJECT JUSTIFICATION

Science West was constructed in 1971. The building no longer adequately supports the educational programs and support functions housed in it. The College will coordinate the renovation of Science West with the construction of the Rockville Science Center. The Chemistry and Biology departments will relocate to the new Rockville Science Center when it is completed in FY11. The existing mechanical system is inadequate and will be replaced along with the existing lighting to create better illumination levels and greater energy efficiency. The funds requested will also provide for the reassignment, realignment, and renovation of space, including furniture and equipment; energy conservation; and handicapped modification measures. Relevant studies include the Collegewide Facilities Condition Assessment (12/13), a Collegewide Facilities Master Plan Update (1/15), and the Part 1 and 2 Program documentation submitted to the State for the Renovation/Addition to the Science East & Science West Buildings (5/06).

OTHER

FY19 Appropriation: -\$3,146,000 in G.O. Bonds. Additional funding Source: State Aid. State share of project is based on anticipated eligible costs. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement.

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans,

as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Rockville Science Center (CIP No. P036600), Science East Building Renovation (CIP No. P076623)

Science East Building Renovation

(P076623)

Category	Montgomery College	Date Last Modified	05/17/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Rockville	Status	Under Construction

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	3,822	3,576	246	-	-	-	-	-	-	-	-
Construction	22,175	22,086	89	-	-	-	-	-	-	-	-
Other	3,098	2,245	853	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	29,095	27,907	1,188	-	-	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	15,742	15,742	-	-	-	-	-	-	-	-	-
State Aid	13,353	12,165	1,188	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	29,095	27,907	1,188	-	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	-	Year First Appropriation	FY09
Appropriation FY 20 Request	-	Last FY's Cost Estimate	29,095
Cumulative Appropriation	29,095		
Expenditure / Encumbrances	27,907		
Unencumbered Balance	1,188		

PROJECT DESCRIPTION

This project provides for the realignment/renovation of space in the Science East building (60,793 GSF) on the Rockville campus in accordance with the College's Facilities Master Plan (1/04) and the building educational space specifications. The renovated building will house general purpose classrooms, and the mathematics and education departments. The building renovation will include general building improvements, HVAC system replacement and related energy conservation measures, and building access improvements. A building survey in FY89 determined that the building structure is fireproofed with a sprayed on asbestos product and asbestos thermal insulation is used on the mechanical systems. Asbestos removal is determined to be the most appropriate response under Federal and State asbestos guidelines. The removal project will include mechanical system reinsulation and re-fireproofing in conformance with the local fire code.

ESTIMATED SCHEDULE

Project construction was completed in Spring 2014.

PROJECT JUSTIFICATION

Science East was constructed in 1965 and the greenhouse addition was constructed in 1970. The building no longer adequately supports the educational programs and support functions housed in it. The College plans to coordinate the renovation of Science East with the construction of the Rockville Science Center. The Biology and Physics departments will relocate to the new Rockville Science Center when it is completed in FY11. The existing mechanical system is inadequate and will be replaced along with the existing lighting to create better illumination levels and greater energy efficiency. The funds requested will also provide for the reassignment, realignment, and renovation of space, including furniture and equipment; energy conservation; and handicapped modification measures. Relevant studies include the Collegewide Facilities Condition Assessment (12/13), a Collegewide Facilities Master Plan Update (1/15), and the Part 1 and 2 Program submitted to the State for the Renovation/Addition to the Science East & Science West Buildings (5/06).

OTHER

Funding sources: G.O. Bonds, and State Aid. State share of project is based on anticipated eligible costs. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. Building renovation planning and design began in FY09 with building asbestos removal and renovation scheduled to begin in FY12. The following G.O Bond fund transfer was made from this project: \$1,400,000 to the Site Improvements project (#P076601)(BOT Resol. #15-09-77, 9/21/15).

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Rockville Science Center (CIP No. P036600), Science West Building Renovation (CIP No. P976645)

Site Improvements: College

(P076601)

Category	Montgomery College	Date Last Modified	05/18/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	3,174	2,191	143	840	140	140	140	140	140	140	-
Site Improvements and Utilities	14,930	11,859	191	2,880	480	480	480	480	480	480	-
Construction	2,730	2,161	89	480	80	80	80	80	80	80	-
TOTAL EXPENDITURES	20,834	16,211	423	4,200	700	700	700	700	700	700	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	19,834	15,211	423	4,200	700	700	700	700	700	700	-
Current Revenue: General	1,000	1,000	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	20,834	16,211	423	4,200	700	700	700	700	700	700	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	700	Year First Appropriation	FY07
Appropriation FY 20 Request	700	Last FY's Cost Estimate	19,434
Cumulative Appropriation	16,634		
Expenditure / Encumbrances	16,212		
Unencumbered Balance	422		

PROJECT DESCRIPTION

This project funds the repair, maintenance and improvements of the College's site infrastructure. This may include, but is not limited to: roadways, parking lots, walkways, site lighting, external site signage and site communications infrastructure. The Stormwater Management project, #076602, was added to the scope of this project in FY2009. This project also provides for the rehabilitation and structural maintenance of storm water management facilities on the College's campuses. This includes, but is not limited to: dam or spillway repairs, pond dredging, storm drain system repairs/replacement, and storm water management studies to determine best practice solutions. This project also funds the repair, maintenance and improvement of the College's outdoor athletic facilities. This may include, but is not limited to: athletic field lighting, reconfiguration and upgrade; the repair/replacement of bleachers; turf renovation including regrading, sodding and irrigation/drainage management; repair/replacement of running tracks and tennis courts; and the repair/replacement of backstops, player protection fencing and benches. ** Note: In FY11, the Outdoor Athletics Facilities: College project (CIP No. 076600) was merged into this project.

COST CHANGE

Increase is due to the addition of FY23 and FY24.

PROJECT JUSTIFICATION

In December 2004, the County Council initiated an Infrastructure Maintenance Task Force which gathered information on the maintenance needs of County agencies. The first objective was to identify the direst needs of agencies for additional funding; while the long-term goal was to initiate an ongoing, regular process to update and improve the inventory and analysis of infrastructure maintenance needs. As the College had already completed a facilities assessment, adequate information was available for buildings and a process was already underway to address these needs. However, less attention had been given to site issues. An outcome of this task force was to create projects to address these site needs. Related studies include the Collegewide Facilities Condition Assessment Update (12/13), the Collegewide Master Plan 2013-2023 (2/16), and the County Council Report of the Infrastructure Maintenance Task Force (3/16).

OTHER

FY19 Appropriation: \$700,000 (G.O. Bonds). FY20 Appropriation: \$700,000 (G.O. Bonds). The following fund transfer has been made to this project: \$1,400,000 from the Science East Building renovation (P076623)(BOT Resol. #: 15-09-77, 9/21/15).

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

This project is coordinated with Utility Master Plans and building renovations on the Rockville, Germantown, and Takoma Park Silver Spring Campuses., Capital Renewal: College (CIP No. P096600), Elevator Modernization: College (CIP No. P056608)

Student Learning Support Systems

(P076617)

Category	Montgomery College	Date Last Modified	05/18/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	6,336	3,647	289	2,400	400	400	400	400	400	400	-
Other	14,884	7,718	1,566	5,600	600	1,000	1,000	1,000	1,000	1,000	-
TOTAL EXPENDITURES	21,220	11,365	1,855	8,000	1,000	1,400	1,400	1,400	1,400	1,400	-

FUNDING SCHEDULE (\$000s)											
Current Revenue: General	20,858	11,003	1,855	8,000	1,000	1,400	1,400	1,400	1,400	1,400	-
Recordation Tax	362	362	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	21,220	11,365	1,855	8,000	1,000	1,400	1,400	1,400	1,400	1,400	-

OPERATING BUDGET IMPACT (\$000s)											
FULL TIME EQUIVALENT (FTE)					4	4	4	4	4	4	

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request		1,000		Year First Appropriation							FY07
Appropriation FY 20 Request		1,400		Last FY's Cost Estimate							18,820
Cumulative Appropriation		13,220									
Expenditure / Encumbrances		11,365									
Unencumbered Balance		1,855									

PROJECT DESCRIPTION

This project includes the installation, upgrading, and replacement of technology systems used to support teaching, learning and advising, to assess student outcomes, and to improve the effectiveness of College services to students. This includes technology to support students with disabilities, technology-based communication and collaboration systems, systems to provide students with access to electronic course materials, library resources, and other applications used by and for students and faculty, including both hardware, software and cloud services. The project funds four technical project and planning analyst positions to manage and support multiple academic support systems.

COST CHANGE

Increase is due to the addition of FY23 and FY24, partially offset by a FY19 reduction of \$400,000 due to County affordability constraints.

PROJECT JUSTIFICATION

It is essential that appropriate systems are in place to enhance learning as well as collaboration and communication. Increased attention to student retention and success has created a growing need to assess the effectiveness of the services and support provided to students and the impact on student success. Leveraging technology is fundamental to enabling student success. State-of-the-market hardware and software capabilities and cloud services are required to attract and serve students, faculty and staff, as well as to serve the business community by upgrading work force technology skills and providing a base for continued economic development in the county. Information technology directly enables the College's mission and is used to facilitate student success; to effectively and efficiently operate the College; and to support the College's growth, development, and community initiatives.

OTHER

FY19 Appropriation: \$1,000,000 (Current Revenue: General). FY20 Appropriation: \$1,400,000 (Current Revenue: General). The following fund reductions/transfers have occurred with this project: By County Council Resolution No. 16-1261, the cumulative appropriation was reduced by \$1,000,000 (Current Revenue: General) as part of the FY10 savings plan; and \$300,000 was transferred from the Information Technology project (#P856509) to this project in FY11.

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

MC2020 Strategic Plan, Academic Master Plan (2015), Facilities Master Plan 2013-2023 (2/16), Information Technology Master Plan, Student Affairs Master Plan (draft), and campus building renovation projects. Expenditures are made in alignment with the priorities and guidelines established by these documents.

Takoma Park/Silver Spring Math & Science Center

(P076607)

Category	Montgomery College	Date Last Modified	05/21/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Silver Spring and Vicinity	Status	Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	10,276	-	1,500	8,776	4,582	4,194	-	-	-	-	-
Construction	68,502	-	-	68,502	-	8,514	27,506	20,482	12,000	-	-
Other	6,850	-	-	6,850	-	-	-	6,850	-	-	-
TOTAL EXPENDITURES	85,628	-	1,500	84,128	4,582	12,708	27,506	27,332	12,000	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	42,814	-	750	42,064	2,291	6,354	13,753	13,666	6,000	-	-
State Aid	42,814	-	750	42,064	2,291	6,354	13,753	13,666	6,000	-	-
TOTAL FUNDING SOURCES	85,628	-	1,500	84,128	4,582	12,708	27,506	27,332	12,000	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	-	Year First Appropriation	FY16
Appropriation FY 20 Request	68,502	Last FY's Cost Estimate	85,628
Cumulative Appropriation	10,276		
Expenditure / Encumbrances	-		
Unencumbered Balance	10,276		

PROJECT DESCRIPTION

This project provides funding for the design and construction of a new academic building (134,600 gross square feet) supporting science programs, such as biology, chemistry, computer science and cybersecurity, engineering, geology, physics, and the mathematics department, as described in the Collegewide Facilities Master Plan, 2013-2023 (2/16). The new math and science building will replace the Science South and Falcon Hall buildings, which will be demolished, and the new building will be constructed on this site.

COST CHANGE

Project expenditures assume that a portion of Information Technology (IT) equipment costs may be funded through the Information Technology (No. P856509) project.

PROJECT JUSTIFICATION

Under the application of the State space guidelines, the enrollment growth on the Takoma Park/Silver Spring Campus has resulted in a significant instructional space deficit. The Takoma Park/Silver Spring Campus has a Fall 2016 laboratory space deficit of 62,480 NASF and a total space deficit of 25,398 NASF. The 2026 projected laboratory space deficit is 55,883 NASF and the total space deficit is anticipated to be 99,331 NASF. The construction of the math & science building will address this deficit as well as replace Science South and Falcon Hall, which are in exceedingly poor condition (as identified in the Collegewide Facilities Condition Assessment, 12/13). Relevant studies include the Collegewide Facilities Condition Assessment Update (12/13), and the Collegewide Facilities Master Plan 2013-2023 (2/16).

OTHER

FY19 Appropriation: 0 FY20 Appropriation: \$68,500,000; \$34,250,000 (G.O. Bonds), and \$34,250,000 (State Aid). Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The construction costs in the expenditure schedule (\$68,500,000) include: site improvement costs (\$6,334,000), building construction costs (\$62,166,000). The building construction cost per gross square foot equals \$462 (\$62,166,000/134,600).

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Facility Planning: College (CIP No. P886686)