

UNIVERSITY *of* WASHINGTON
2020 Supplemental Capital Budget Request

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2020 Supplemental Budget Letter

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HSEB
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UW SEATTLE

MAGNUSON HEALTH SCIENCES CENTER – RENOVATION/REPLACEMENT PHASE II

Pre-design

PROJECT OVERVIEW

- This funding request will support the study of the phased renovation required for the Magnuson Health Sciences Center (MHSC) built in multiple phases from 1949-1973.
- This will be a multi-phased renovation/replacement within the Health Sciences campus which will significantly reduce our deferred maintenance in infrastructure, life safety and code compliance issues and enables the modernization of classroom and lab spaces for all six schools within the Health Sciences campus.
- The multi-phased approach is critical to the success of this project as the current building is considerably over HSEB utilization targets.
- The Health Sciences Education Building (T-Wing Addition) Phase I construction will allow some decanting of classroom spaces in the T-wing to enable the Phase II renovation/replacement to be possible.
- The proposal will support the in-depth study of the multi-phased approach to the renovation/replacement of portions of the Magnuson Health Sciences Center.
- The goal is to prolong the useful life of the facility and increase the potential number of bachelor and advanced degrees by increasing the quantity, quality and efficiency of the classroom and class lab spaces within the Health Sciences campus in the primary teaching facility.

FUNDING REQUEST

THE UW REQUESTS \$1M IN STATE FUNDING FOR THE PRE-DESIGN PHASE

FAST FACTS

- All six Health Sciences schools are recognized leaders in healthcare education and research, and are ranked amongst the top few in the world.
- We teach over 8,000 students working toward a wide variety of healthcare and social service research degrees within the schools of Dentistry, Medicine, Nursing, Pharmacy, Public Health and Social Work.
- In 2017-2018, the six schools created 2,209 degrees in the healthcare and social services industry.
- Built in 1973, the T Wing cannot support the space requirements and advanced learning technologies essential for training modern health professionals.
- Current space limits the options for inter-professional experiential learning capacity, impacting accreditation and certification requirements.
- The current facilities condition index for the T-wing is listed as a 3 out of 5 for the overall building, however critical areas in both academic and infrastructure spaces significantly exceed this scoring. Thus, this building is listed as a critical need in deferred maintenance resolution.

360 - University of Washington
Ten Year Capital Plan by Project Class
 2019-21 Biennium
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Version: 2B 19-21 Supplemental Budget Final

Report Number: CBS001

Date Run: 9/20/2019 12:47PM

Project Class: Preservation

<u>Agency</u>	<u>Project by Account-EA Type</u>	<u>Estimated</u> <u>Total</u>	<u>Prior</u> <u>Expenditures</u>	<u>Current</u> <u>Expenditures</u>	<u>Reapprop</u> <u>2019-21</u>	<u>New</u> <u>Approp</u> <u>2019-21</u>	<u>Estimated</u> <u>2021-23</u>	<u>Estimated</u> <u>2023-25</u>	<u>Estimated</u> <u>2025-27</u>	<u>Estimated</u> <u>2027-29</u>
1	40000049 Magnuson Health Sciences Phase II- Renovation/Replacement									
	057-1 State Bldg	60,000,000				1,000,000	5,000,000	54,000,000		
	Constr-State									

Total Account Summary

<u>Account-Expenditure Authority Type</u>	<u>Estimated</u> <u>Total</u>	<u>Prior</u> <u>Expenditures</u>	<u>Current</u> <u>Expenditures</u>	<u>Reapprop</u> <u>2019-21</u>	<u>New</u> <u>Approp</u> <u>2019-21</u>	<u>Estimated</u> <u>2021-23</u>	<u>Estimated</u> <u>2023-25</u>	<u>Estimated</u> <u>2025-27</u>	<u>Estimated</u> <u>2027-29</u>
057-1 State Bldg Constr-State	60,000,000				1,000,000	5,000,000	54,000,000		

360 - University of Washington

Capital FTE Summary

2019-21 Biennium

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Version: 2B 19-21 Supplemental Budget Final

Report Number: CBS004

Date Run: 9/20/2019 12:49PM

FTEs by Job Classification

<u>Job Class</u>	<u>Authorized Budget</u>		<u>2019-21 Biennium</u>	
	<u>2017-19 Biennium</u>			
	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>
Associate Vice President			0.0	1.0
Executive Director			0.0	1.0
Project Integrator			0.0	1.0
Project Manager			0.0	2.0
Total FTEs			0.0	5.0

Account

<u>Account - Expenditure Authority Type</u>	<u>Authorized Budget</u>		<u>2019-21 Biennium</u>	
	<u>2017-19 Biennium</u>			
	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>
057-1 State Bldg Constr-State			0	160,000

Narrative

The above FTE outlined will be specific to the pre-design funding of \$1M.

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The above FTE outlined will be specific to the pre-design funding of \$1M.

Capital Project Request

2019-21 Biennium

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Version: 2B 19-21 Supplemental Budget Final

Report Number: CBS002

Date Run: 9/20/2019 12:51PM

Project Number: 40000049

Project Title: Magnuson Health Sciences Phase II- Renovation/Replacement

Description

Starting Fiscal Year: 2021

Project Class: Preservation

Agency Priority: 1

Project Summary

The University of Washington requests \$1 million in 2019-21 supplemental capital funding for the pre-design of the Magnuson Health Sciences Phase II - Renovation/Replacement. This funding request will support the study of the phased renovation required for the Magnuson Health Sciences Center (MHSC). This will be a multi-phased renovation within the Health Sciences campus which will significantly reduce our deferred maintenance in infrastructure, life safety, code compliance issues, as well as enable modernization of classroom and lab spaces (some instructional spaces are currently at risk of losing accreditation). The Magnuson Health Sciences Center services six schools currently located within the Health Sciences campus as well as provides high capacity interdisciplinary classrooms and teaching labs. The multi-phased approach is critical to the success of this project as existing T-Wing teaching functions are considerably over classroom utilization targets.

Project Description

The problem/opportunity:

The Magnuson Health Sciences Center as a whole was built in various phases from 1949-1973. Each addition or minor renovation over the years has added more pressure on the overall infrastructure, MEP needs and structural integrity of the building. Thus, we have a significant amount of deferred maintenance which includes infrastructure needs, life safety and code compliance issues. This building serves as the **primary** teaching facility for our health care focused student population with direct connection to the University Medical Center.

Although adequate for traditional lecture style teaching, the Magnuson Health Sciences Teaching Center (T-Wing), constructed in 1973, cannot accommodate all existing or new course offerings nor support the advanced learning technologies and space requirements of active team-based learning essential for training health and health care professionals of the 21st Century. Current space limits the options for all six schools of Health Sciences for inter-professional and overlapping instructional activities and cutting-edge educational technologies essential to supporting in-person experiential learning, distance and distributed learning, and connections with local, regional, and global community partners. In order to deliver world class scholar in the healthcare fields, we will need to modernize our teaching facilities to keep up with other top Universities offering these programs.

US News & World Report 2020 Rankings for the University of Washington:

- 2020 Best Medical Schools: Research, #12 2020 Best Medical Schools: Primary Care, #2
- 2020 Best Medical School Specialties
 - o Family Medicine, #2
 - o Internal Medicine, #11
 - o Pediatrics, #9
- 2020 Best Nursing Schools: Master's, #12

Identified as early as the 2011-2013 State Capital Budget Request 10-Year Plan, a "Health Sciences Teaching Building" long range four-phase plan and the subsequent proposal for an incremental Phase I new building emerged as a top priority for the UW as part of a commitment to create a shared vision of service to people locally and globally. The Phase I construction of the new Health Sciences Education Building was the start of the phased plan and a requirement towards meeting the immediate need for shared instructional space as well as provide an opportunity to decant existing T-Wing functions in anticipation of Phase II and subsequent phases of renovation/replacement. It will enable the uninterrupted operation of existing and evolving pedagogies while accommodating the growing demands of education space for the health sciences schools including space for interdisciplinary innovation and collaboration to help transform training for tomorrow's health professional.

Request and what it will produce?

The pre-design funding will support the UW in an in-depth study of the multi-phased approach to the renovation/replacement of portions of the Magnuson Health Sciences Center. Enabled by the new Health Sciences Education Building - Phase I, we will work through a pragmatic approach to the multi-phase renovation/replacement detailed implementation plan.

How would the request address the problem?

This proposal will increase the potential number of bachelor and advanced degrees by increasing the quantity, quality and efficiency of the classroom and class lab spaces within the Health Sciences. The UW Health Sciences disciplines are already highly competitive and desired programs. By modernizing and creating the environments that will accommodate collaborative and multidisciplinary learning, the University will simultaneously create greater demand for and greater capacity of these

Capital Project Request

2019-21 Biennium

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Version: 2B 19-21 Supplemental Budget Final

Report Number: CBS002

Date Run: 9/20/2019 12:51PM

Project Number: 40000049

Project Title: Magnuson Health Sciences Phase II- Renovation/Replacement

Description

programs.

At the close of the 2015-16 academic year, 10,661 bachelor's degrees were awarded at the University of Washington. Within that year, 4,713 high-demand field bachelor's degrees and 5,463 advanced degrees were awarded. Specific degree targets were not available for all six Health Science schools.

This project provides a unique opportunity to promote and enhance access for underserved regions by the UW Health Sciences education programs throughout the region and state. Distance and distributed learning capacity, geographic reach, and connectivity improvements are at the core of the Health Sciences education at the UW and will play a critically important role in the scope of the work proposed with this Phase I project.

CUTTING EDGE E-LEARNING CAPACITY

The proposal will support and enhance in-person experiential learning capacity for students throughout the state as Health Sciences students are embracing technology in ways not imagined a few years ago as a key component of their Health Sciences professional education. The proposal will support distance and distributed learning by enhancing technology platforms including I-TECH and others to support simplified access to our learning and teaching opportunities through the state, across the country, and around the world.

GEOGRAPHIC REACH

UW health professions have increasingly broad and enhanced geographic reach and influence through the landmark WWAMI (Washington, Wyoming, Alaska, Montana, and Idaho) medical education program RIDE (Regional Initiatives in Dental Education) program, the MEDEX a leading national Health Sciences education program in Physician Assistant education; and other regional public health, pharmacy, social work professions education initiatives throughout the region and state.

IMPROVED CONNECTIVITY

The proposal will improve connectivity within the large Magnuson Health Science Center, with existing distance learning locations, and within the UW campus schools and colleges in support of distributed health and life sciences educational programs to locations physically remote from the Magnuson Health Science T-Wing classrooms and simulation facilities. The 70-year-old Magnuson Health Science Center has approximately 235,000 assignable square feet. 150,000 square feet of this space is dedicated to instructional space with the majority of the remainder consisting of the large Health Sciences University Library and Information Support space. Nearly all of this space which is the educational heart of the Health Sciences at UW, lacks the flexibility and advanced technologies required for educating our future Health Sciences professionals. Existing classrooms are unsuited for the current model for professional health science education: active, collaborative and technically advanced learning. There is a severe shortage of small seminar rooms and team-based classrooms. Current classrooms are designed for didactic, lecture-based teaching. The UW does have large tiered auditoriums flexible enough to accommodate big groups of the high demand Health Sciences educational programs, limiting options for efficiently and effectively involving all six schools in their individual and overlapping instructional activities.

Phase II is critical to supporting efficient reuse of the existing Magnuson Health Sciences Center through phased renovation creating more efficient/higher space utilization. The vision for Health science education at the University of Washington is dependent upon creating effective space that encourages formal and informal interaction among students, faculty, and staff from all six Health Sciences schools. Most importantly, achieving major space utilization efficiencies by supporting shared educational activities among all of the health and life sciences programs is central to this projects.

In the 2013-2014 academic year, an extensive review of learning spaces on the UW Seattle campus was performed to identify classroom needs in light of changing instructional pedagogies and rising demand for general-assignment classroom space. This review, The Learning Space Assessment Study, explored utilization rates, scheduling practices, technology deployment and the physical conditions of classroom spaces. The study recommends a utilization rate of 67%, based on best practice common among peer institutions. Current data shows actual utilization rates of 82.5% in general use classrooms, and over 72% in class labs, significantly higher than recommend rates.

Both the current classroom space and the current class laboratory space for the University of Washington exceed the Higher Education Coordinating Board (HECB) utilization standards. Classroom space exceeds HECB standards by 2%, and class lab space exceeds the HECB utilization standard by 3%. Existing classrooms are unsuited to active, collaborative learning – the current model for professional health science education. There is a severe shortage of small seminar rooms and team-based classrooms – current classrooms are designed for didactic, lecture-based teaching. The UW does have large tiered auditoriums flexible enough to accommodate big groups of the high demand health life sciences educational program, limiting options for efficiently and effectively involving all six schools in their individual and overlapping instructional activities.

How does this project support the campus master plan?

The approved Seattle Campus Master Plan shows a significant change in the Health Sciences region of campus with the

Capital Project Request

2019-21 Biennium

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Version: 2B 19-21 Supplemental Budget Final

Report Number: CBS002

Date Run: 9/20/2019 12:51PM

Project Number: 40000049

Project Title: Magnuson Health Sciences Phase II- Renovation/Replacement

Description

additional of view corridors and public access to the waterfront. The long term goal being to open up portions of the Magnuson Health Sciences Center to offer better pedestrian pathways and student centric spaces. The city of Seattle supported and desired this change in campus land use patterns to support the long term vision of access to the waterfront. The proposed project is consistent with the Seattle Master Plan's vision for this portion of campus.

Location

City: Seattle

County: King

Legislative District: 043

Project Type

Remodel/Renovate/Modernize (Major Projects)

Growth Management impacts

The Growth Strategies legislation requires state agencies to comply with local land use regulations adopted pursuant to the Growth Management Act, which the University of Washington acknowledges through the development of the 2001 Seattle Campus Master Plan which was approved by the Seattle City Council in December of 2002 and by the UW Board of Regents in January 2003. The proposed project is consistent with the Seattle Campus Master Plan which serves a general regulatory guide to UW campus land use development.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2019-21 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	60,000,000				1,000,000
	Total	60,000,000	0	0	0	1,000,000
Future Fiscal Periods						
		2021-23	2023-25	2025-27	2027-29	
057-1	State Bldg Constr-State	5,000,000	54,000,000			
	Total	5,000,000	54,000,000	0	0	

Schedule and StatisticsStart DateEnd Date

Capital Project Request

2019-21 Biennium

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Version: 2B 19-21 Supplemental Budget Final

Report Number: CBS002

Date Run: 9/20/2019 12:51PM

Project Number: 40000049

Project Title: Magnuson Health Sciences Phase II- Renovation/Replacement

Schedule and Statistics

	<u>Start Date</u>	<u>End Date</u>
Predesign	07/01/2020	06/01/2022
Design	7/1/2022	6/1/2024
Construction	7/1/2024	7/1/2026

Total

Gross Square Feet:	493,496
Usable Square Feet:	401,277
Efficiency:	81.3%
Escalated MACC Cost per Sq. Ft.:	70
Construction Type:	College Classroom Facilities
Is this a remodel?	Yes
A/E Fee Class:	B
A/E Fee Percentage:	9.84%

Cost Summary

	<u>Escalated Cost</u>	<u>% of Project</u>
Acquisition Costs Total	0	0.0%
Consultant Services		
Pre-Schematic Design Services	1,209,800	2.0%
Construction Documents	2,412,222	4.0%
Extra Services	1,031,104	1.7%
Other Services	1,155,289	1.9%
Design Services Contingency	788,284	1.3%
Consultant Services Total	6,596,697	11.0%
Maximum Allowable Construction Cost(MACC)	34,430,323	
Site work	0	0.0%
Related Project Costs	0	0.0%
Facility Construction	34,430,323	57.4%
GCCM Risk Contingency	0	0.0%
GCCM or Design Build Costs	930,369	1.6%
Construction Contingencies	3,443,032	5.7%
Non Taxable Items	0	0.0%
Sales Tax	3,686,354	6.1%
Construction Contracts Total	42,490,077	70.8%
Equipment		
Equipment	5,638,950	9.4%
Non Taxable Items	0	0.0%
Sales Tax	568,190	1.0%

Capital Project Request

2019-21 Biennium

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Version: 2B 19-21 Supplemental Budget Final

Report Number: CBS002

Date Run: 9/20/2019 12:51PM

Project Number: 40000049

Project Title: Magnuson Health Sciences Phase II- Renovation/Replacement

Cost Summary

	<u>Escalated Cost</u>	<u>% of Project</u>
Equipment Total	6,549,140	10.9%
Art Work Total	172,152	0.3%
Other Costs Total	1,932,150	3.2%
Project Management Total	2,259,782	3.8%
Grand Total Escalated Costs	<u>59,999,998</u>	
Rounded Grand Total Escalated Costs	60,000,000	

Operating Impacts

No Operating Impact

Narrative

This is a pre-design request. We will update once we have more details to provide on any operating impacts to this project. Currently, we do not anticipate any.

Cost Estimate Summary

2019-21 Biennium

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Cost Estimate Number: 194

Report Number: CBS003

Cost Estimate Title: HS Education Ph II T-Wing Renovation 17-19

Date Run: 9/20/2019 12:54PM

Version: 2B 19-21 Supplemental Budget Final

Agency Preferred: Yes

Project Number: 40000049

Project Title: Magnuson Health Sciences Phase II- Renovation/Replacement

Project Phase Title:

Contact Info

Contact Name: Michelle Reed

Contact Number: 206.616.3424

Statistics

Gross Sq. Ft.:	493,496
Usable Sq. Ft.:	401,277
Space Efficiency:	81%
MACC Cost per Sq. Ft.:	52
Escalated MACC Cost per Sq. Ft.:	70
Remodel?	Yes
Construction Type:	College Classroom Facilities
A/E Fee Class:	B
A/E Fee Percentage:	9.84%

Schedule

Start Date

End Date

Predesign:	07-2020	06-2022
Design:	07-2022	06-2024
Construction:	07-2024	07-2026
Duration of Construction (Months):	24	

Cost Summary Escalated

Acquisition Costs Total

Pre-Schematic Design Services	1,209,800
Construction Documents	2,412,222
Extra Services	1,031,104
Other Services	1,155,289
Design Services Contingency	788,284

0

Consultant Services Total

Site work	0
Related Project Costs	0
Facility Construction	34,430,323
Construction Contingencies	3,443,032
Non Taxable Items	0
Sales Tax	3,686,354

6,596,697

Construction Contracts Total

Maximum Allowable Construction Cost(MACC)	34,430,323
Equipment	5,638,950
Non Taxable Items	0
Sales Tax	568,190

42,490,077

Equipment Total

6,549,140

Art Work Total

172,152

Other Costs Total

1,932,150

Project Management Total

2,259,782

Grand Total Escalated Costs

59,999,998

Rounded Grand Total Escalated Costs

60,000,000

Additional Details

Alternative Public Works Project:

Yes

Cost Estimate Summary

2019-21 Biennium

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Cost Estimate Number: 194**Report Number:** CBS003**Cost Estimate Title:** HS Education Ph II T-Wing Renovation 17-19**Date Run:** 9/20/2019 12:54PM**Version:** 2B 19-21 Supplemental Budget Final**Agency Preferred:** Yes**Project Number:** 40000049**Project Title:** Magnuson Health Sciences Phase II- Renovation/Replacement**Project Phase Title:****Contact Info****Contact Name:** Michelle Reed**Contact Number:** 206.616.3424**Additional Details**

State Construction Inflation Rate:	3.18%
Base Month and Year:	06-2016
Project Administration By:	AGY
Project Admin Impact to DES that is NOT Included in Project Total: \$0	

Cost Estimate Detail

2019-21 Biennium

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Cost Estimate Number: 194

Analysis Date: September 20, 2019

Cost Estimate Title: HS Education Ph II T-Wing Renovation 17-19

Detail Title: MHSC Phase II- Renovation/Replacement

Project Number: 40000049

Project Title: Magnuson Health Sciences Phase II- Renovation/Replacement

Project Phase Title:

Location: Seattle, King County

Contact Info

Contact Name: Michelle Reed

Contact Number: 206.616.3424

Statistics

Gross Sq. Ft.: 493,496

Usable Sq. Ft.: 401,277

Rentable Sq. Ft.:

Space Efficiency: 81%

Escalated MACC Cost per Sq. Ft.: 70

Escalated Cost per S. F. Explanation

Construction Type: College Classroom Facilities

Remodel? Yes

A/E Fee Class: B

A/E Fee Percentage: 9.84%

Contingency Rate: 10.00%

Contingency Explanation

Projected Life of Asset (Years): 50

Location Used for Tax Rate: Seattle, King Cou

Tax Rate: 9.50%

Art Requirement Applies: Yes

Project Administration by: AGY

Higher Education Institution?: Yes

Alternative Public Works?: Yes

Project Schedule**Start Date****End Date**

Predesign: 07-2020 06-2022

Design: 07-2022 06-2024

Construction: 07-2024 07-2026

Duration of Construction (Months): 24

State Construction Inflation Rate: 3.18%

Base Month and Year: 6-2016

Project Cost Summary

MACC: \$ 25,904,990

MACC (Escalated): \$ 34,430,323

Current Project Total: \$ 45,492,998

Rounded Current Project Total: \$ 45,493,000

Escalated Project Total: \$ 60,032,401

Rounded Escalated Project Total: \$ 60,032,000

<u>ITEM</u>	<u>Base Amount</u>	<u>Sub Total</u>	<u>Escalation Factor</u>	<u>Escalated Cost</u>
CONSULTANT SERVICES				
<u>Pre-Schematic Design Services</u>				
Predesign Study	1,000,000			
SubTotal: Pre-Schematic Design Services		1,000,000	1.2098	1,209,800
<u>Construction Documents</u>				
A/E Basic Design Services				1,934,730
SubTotal: Construction Documents				2,412,222
<u>Extra Services</u>				
Commissioning (Systems Check)	100,000			
Testing	100,000			
Leadership Energy & Environment Design List(LEED)	50,000			
Environmental Mitigation Services (EIS)	100,000			
Specialty Consultant	365,000			
Reimbursable	112,000			
SubTotal: Extra Services		827,000	1.2468	1,031,104
<u>Other Services</u>				
Bid/Construction/Closeout				869,226
SubTotal: Other Services				1,155,289
<u>Design Services Contingency</u>				
Design Services Contingency	463,096			
CO Design Allowance	130,000			
SubTotal: Design Services Contingency		593,096	1.3291	788,284
Total: Consultant Services		5,224,052	1.2628	6,596,697
CONSTRUCTION CONTRACTS				
<u>Facility Construction</u>				
Complete Facilities	20,000,000			
Estimating Contingency	2,000,000			
Hazardous Materials in Demolition	3,904,990			
SubTotal: Facility Construction		25,904,990	1.3291	34,430,323
<u>GCCM or Design Build Costs</u>				
Support Services	699,999			
SubTotal: GCCM or Design Build Costs		699,999	1.3291	930,369
<u>Construction Contingencies</u>				
Allowance for Change Orders	2,590,499			
SubTotal: Construction Contingencies		2,590,499	1.3291	3,443,032
Sales Tax		2,773,571	1.3291	3,686,354
Total: Construction Contracts		31,969,059	1.3291	42,490,077
Maximum Allowable Construction Cost (MACC)		25,904,990	1.3300	34,430,323
EQUIPMENT				
E10 - Equipment	2,500,000			
E20 - Furnishings	2,000,000			
SubTotal:		4,500,000	1.3291	5,638,950
Sales Tax		427,500	1.3291	568,190

<u>ITEM</u>	<u>Base Amount</u>	<u>Sub Total</u>	<u>Escalation Factor</u>	<u>Escalated Cost</u>
EQUIPMENT				
Total: Equipment		4,927,500	1.3291	6,549,140
ART WORK				
Higher Ed Artwork	258,228			
Total: Art Work		172,152	1.0000	172,152
OTHER COSTS				
Permits/ Insurance/Connections	1,500,000			
Total: Other Costs		1,500,000	1.2881	1,932,150
PROJECT MANAGEMENT				
Agency Project Management	1,000,235			
Construction Management	700,000			
Total: Project Management		1,700,235	1.3291	2,259,782

Health Sciences Lecture Hall Utilization Heat Map- WIN18

	Supply	Target	Monday	Tuesday	Wednesday	Thursday	Friday
7:30	12	8	2	6	9	3	5
8:00	12	8	6	7	6	7	8
8:30	12	8	11	9	12	11	12
9:00	12	8	11	7	11	11	12
9:30	12	8	11	10	11	10	12
10:00	12	8	9	9	10	11	12
10:30	12	8	9	9	12	11	12
11:00	12	8	9	11	12	11	11
11:30	12	8	10	11	9	9	11
12:00	12	8	10	8	7	9	11
12:30	12	8	9	8	8	9	11
13:00	12	8	9	8	8	9	11
13:30	12	8	10	11	10	10	11
14:00	12	8	10	10	11	9	9
14:30	12	8	7	10	11	11	4
15:00	12	8	6	10	9	11	6
15:30	12	8	9	11	9	10	5
16:00	12	8	8	10	9	9	3
16:30	12	8	6	9	8	9	4
17:00	12	8	5	7	7	6	3
17:30	12	8	4	7	5	6	3
18:00	12	8	0	5	2	5	1
18:30	12	8	0	4	2	4	1
19:00	12	8	0	3	2	2	1

N=12

67%	8.04
80%	9.6
60%	7.2
50%	6

Health Sciences Classroom Utilization Heat Map- WIN 18

	Supply	Target	Monday	Tuesday	Wednesday	Thursday	Friday
7:30	33	22	4	8	12	7	5
8:00	33	22	9	9	12	15	11
8:30	33	22	21	18	28	24	18
9:00	33	22	24	21	37	32	20
9:30	33	22	24	24	37	32	25
10:00	33	22	25	22	35	32	26
10:30	33	22	31	26	40	36	29
11:00	33	22	31	28	42	35	27
11:30	33	22	35	28	33	27	27
12:00	33	22	29	22	25	25	27
12:30	33	22	26	24	23	28	25
13:00	33	22	24	25	20	29	22
13:30	33	22	24	28	22	34	23
14:00	33	22	26	29	27	34	22
14:30	33	22	28	26	28	31	17
15:00	33	22	25	29	27	31	16
15:30	33	22	28	38	27	30	16
16:00	33	22	26	38	27	23	13
16:30	33	22	16	34	19	21	14
17:00	33	22	11	30	14	14	11
17:30	33	22	8	14	12	9	7
18:00	33	22	5	9	8	9	5
18:30	33	22	4	7	8	7	3
19:00	33	22	4	5	7	3	2

N=33

67%	22.11
80%	26.4
60%	19.8
50%	16.5