

#### EXHIBIT C PROGRAM

### REQUEST FOR QUALIFICATIONS

PART A: PRE-CONSTRUCTION SERVICES (Design-Assist) and

PART B: CONSTRUCTION SERVICES (Construction Management at Risk)

New STEM Complex Southern University Baton Rouge, Louisiana Project No. 19-616-20-02, F.19002357

January 26, 2023



# SOUTHERN UNIVERSITY

AND AGRICULTURAL & MECHANICAL COLLEGE

**New STEM Complex** 

Programming Submittal, March 29th 2022







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←University of Kansas ISB, Biology Teaching Lab





### **ACKNOWLEDGEMENTS**

### **Southern University Baton Rouge Executive Committee**

- Dr. Patrick Carriere, Dean, College of Sciences and Engineering
- Mr. Archie Tiner, CSE Liason for Renovation,
   Remodeling and New Construction
- Mr. Maurice Pitts, Executive Director of Facility Services

### State of LA Office of Facility Planning & Control

- Mr. Bobby Boudreaux, Assistant Director
- Mr. James Pugh, Project Manager



### **Design Team**





### Perkins&Will





### **ACKNOWLEDGEMENTS**

**Project Identification:** New STEM Complex

**Project Location:** Southern University | Baton Rouge, LA

**Schedule Number:** 19-616-20-02

**WBS Number:** F.19002357

\$37,850,000 AFC:

**Design Schedule:** (See Below)

PHASE SUBMITTAL	ORIGINAL	DAYS	REVISED	REVIEW
	DATE DUE	EXT.	DUE DATE	DAYS
Program Completion	11/15/2021	134	3/29/22	20
Schematic Design	12/26/2021	134	5/9/22	40
Design Development	4/4/2022	134	8/16/22	0
Construction Documents				
Bid Documents				







#### **EXECUTIVE SUMMARY**

The design team – guided by leaders of the Office of Facility Planning and Control – collaborated with the Southern University Science, Math and Engineering Dean's office, facilities leaders, and faculty representatives to create a building program that embodies the vision for this new state-of-the art teaching, learning and research facility. As the framework for moving forward, this document will serve as a road map for the design of the new STEM building. The contents of this building program include a detailed spreadsheet of the building spaces – by uses type (pie charts) and by department (Excel spreadsheet), a graphic depiction of the building program, a statement of probable cost, a series of design considerations – including laboratory design concepts, a series of site-analysis graphics, and images of a preliminary investigation of blocking and stacking of the spaces on the site.

The building program is informed from our team's experience: (1) We investigated similar buildings at peer institutions for similar program components, mix of uses, and net-square-feet to gross-square-feet efficiency ratio; and (2) our team has designed other Science, Teaching, Laboratory buildings on other university campuses, and we brought this knowledge to bear on the program of this facility.

This program is focused on creating a student-centric environment: Throughout programming, we've provided for a connected, dynamic and immersive place for students and faculty. As a 21st-century STEM educational and research venue is desired, it's important to encourage informal collaboration in the corridors and common spaces of the building – a 65% net-square-feet to gross-square-feet efficiency ratio will allow for this.

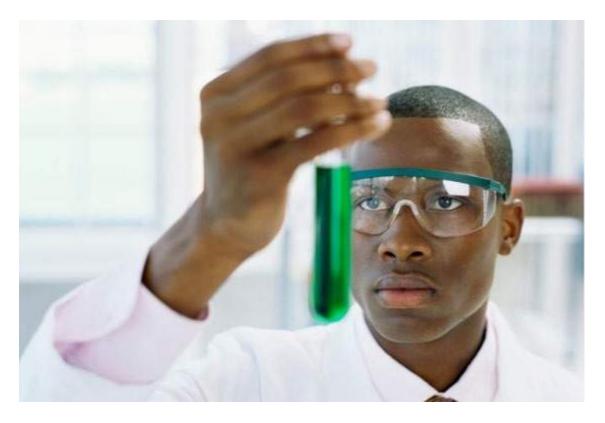
A primary source for deciding the number and type of teaching spaces, as well as space utilization, was our analysis of the recent (Fall 2021/Spring 2022) enrollment of students in the various classes to be taught within the new facility. Additionally, the design team met individually with the chairs of the various departments to tour their existing facilities, assess needs, and receive their wish lists for the new building. The process was iterative – initial program assumptions were refined and adapted throughout the process, as the design team responded to feedback from the university stakeholders.

Several hallmarks of successful STEM facility design were kept in mind during the preparation of, and are reflected in, the building program. A few of note include: (1) Traditional classroom sizes are mixed with scale-up classrooms, to accommodate flexibility in teaching modalities within the same space. (2) Laboratories are conceived in planning modules that will allow a high degree of utilization throughout the day, as well as be flexible so that labs adapt easily to different types of teaching and research.









#### **EXECUTIVE SUMMARY**

(3) Classroom and lab configurations are envisioned that will allow for integration with tech and audio/visual systems for digital-age teaching, learning and understanding. As a way of keeping entire groups of teaching laboratories prepped for various subjects of study, and to allow quick transitions between lab classes, common service corridors are provided for the teaching labs – a "back-of-house" support space outside the back door of each lab.

An analysis of the building site has revealed several advantages: (1) The site is central to the Science, Math and Engineering zone on Southern University's campus, and pedestrian connections to all of its surrounding facilities will be possible; (2) its position on a prominent street corner makes the site highly visible and easily accessible by students and faculty (both on-foot and from nearby parking areas) on many sides; (3) the site will allow for lots of natural light, including a broad expanse on the north side, allowing for good indirect daylighting on that side; (4) a row of mature trees grace its north side, and the site will be shaded on the west when the sun is hot and low in the sky, with the potential of glare; (5) it can accommodate a building of 3 stories (assuming James Hall will be demolished, as planned) that will encourage the use of open stairs instead of elevators – an essential part of a connected, student-centric environment.

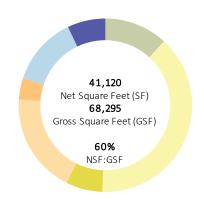
A challenge for the project is its limited budget of just under \$38 million. This translates into a maximum building area that cannot be exceeded, and as a result some of the spaces initially considered for inclusion in the program had to be left out. Additionally, the construction industry is in the midst of fluctuating costs for building supplies and products. We've seen prices rise of the last several months, and the trend appears to be continuing. At the publication of this document, we believe the market will allow at cost-per-square-foot of about \$475 for this type of facility – higher than the \$350 range initially assumed. As such, we've included a Base Bid program that meets the available funds for construction at today's costs (the \$475 range). A second program, the Bid Alternate 1 program, is listed that adds back the program spaces that were included as part of the \$350/sf program, but were excluded in the \$475/sf program). Finally, we understand there may be a possibility of Southern University being granted additional funding as the design process unfolds, either from the State Legislature and/or from other sources. Therefore, there's a third program included herein – the Bid Alternate 2 program – which adds more wish-list spaces to the building if additional funds become available.

The spaces included in the Base Bid Program have been reviewed and selected by Southern University, and this document reflects that,

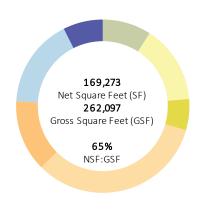




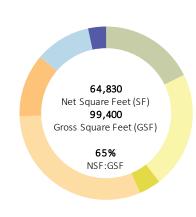
# PROGRAM INFORM from experience



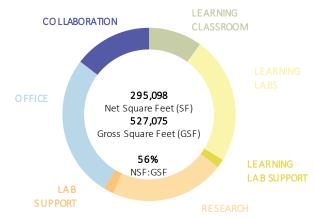
Abilene Christian University
Halbert Walling Research
Center



Kansas University
Integrated Science Building



Indiana University
Multidisciplinary Research
and Classroom Building



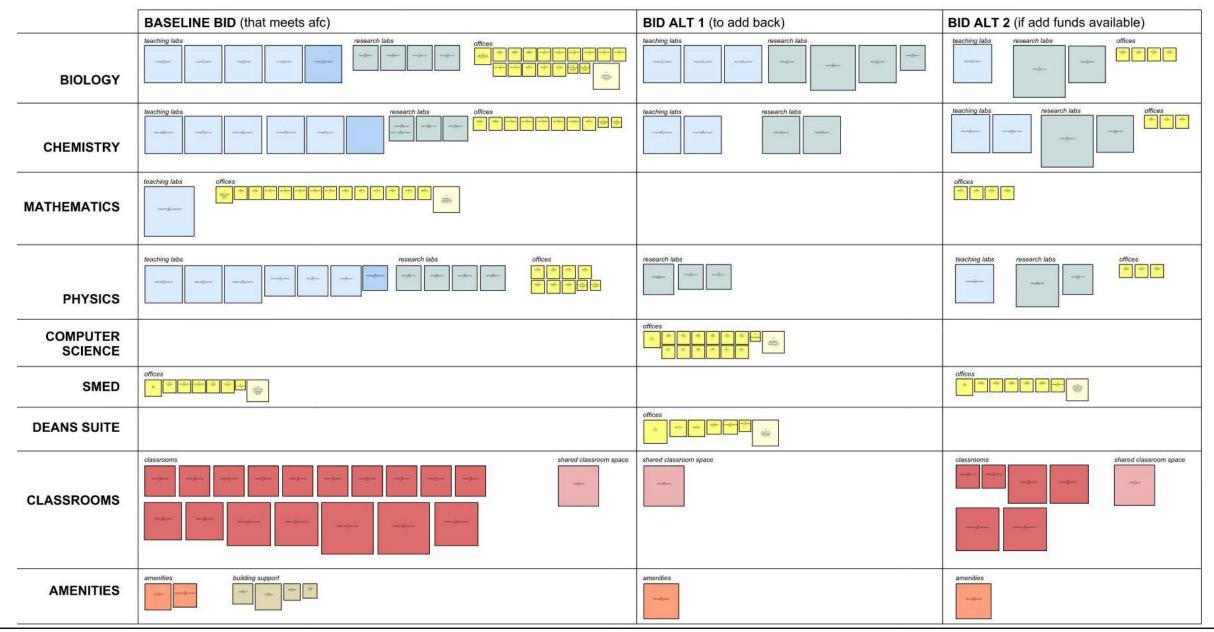
Louisiana State University
Patrick F. Taylor Hall







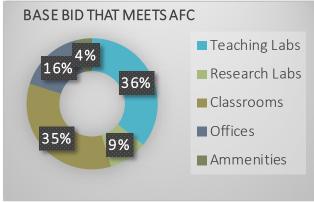
### PROGRAM SUMMARY

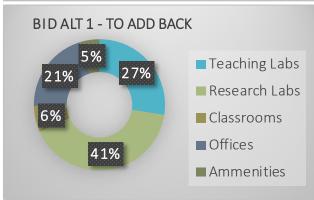


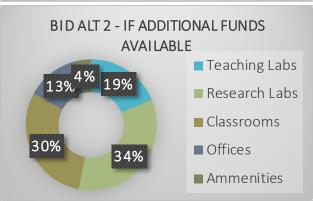




### **SPACE PROGRAM SUMMARY**







Cauthann	Harling and Inch	CTERA	Double House	
Southern	university	DI EIVI	building	

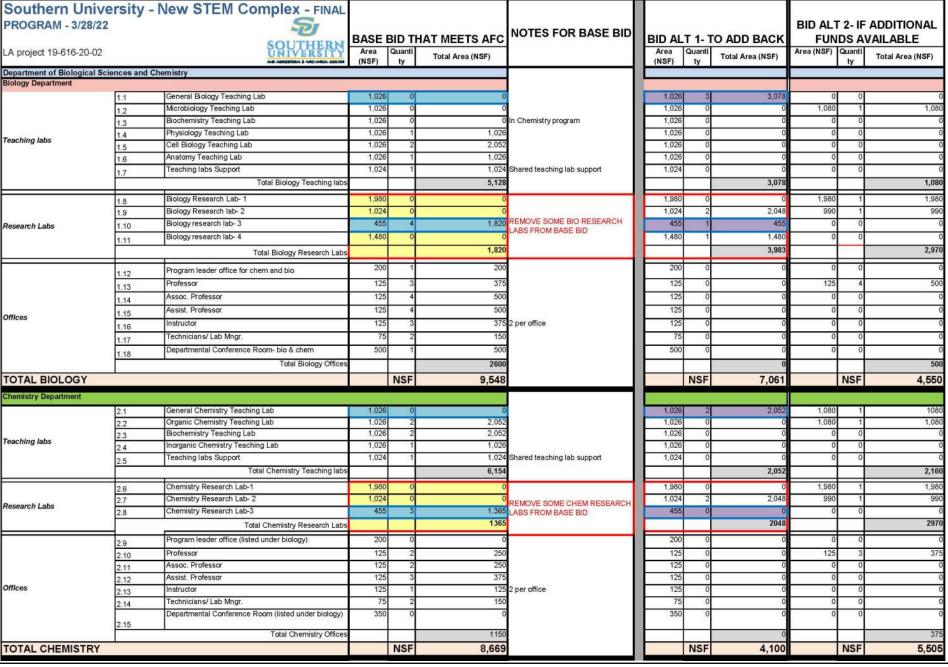
	***		ADDITIONAL PROGRAM BID ALT 1 - TO ADD BACK	ADDITIONAL PROGRAM FUNDS AVAILABLE
AREA/FUNCTION	77.00	OTAL NSF	TOTAL NSF	TOTAL NSF
AREAY FUNCTION	83	OTAL NSF	TOTAL NSF	TOTAL NSF
Teaching Labs				
Biology Department		5,128	3,078	1,08
Chemistry Department		6,154	2,052	2,16
Mathematics Department		1,820	0	
Physics Department	130000 V 4400	5,579	0	1,08
	NSF	18,681	5,130	4,32
Research Labs				
Biology Department		1,820	3,983	2,97
Chemistry Department		1,365	2,048	2,97
Physics Department	21	1,820	1,592	1,98
100	NSF	5,005	7,623	7,92
Classrooms				
Classrooms - Traditional		8,868	0	2,96
Classrooms - Scale-up		8,015	0	2,70
Lecture Hall		0	0	
Student Success Center		0	1,195	
Student Commons		1,195	0	1,20
	NSF	18,078	1,195	6,8
Offices				
Biology Department		2,600	0	50
Chemistry Department		1,150	0	3
Mathematics Department		2,400	0	56
Physics Department		1,025	0	3
Computer Science Offices		О	2,125	
Science/Math Edu. SMED		1,250	0	1,30
Dean's Suite		0	1,700	
	NSF	8,425	3,825	3,0
Building Amenities		-		
Graduate Student Bullpen		0	900	90
Faculty Lounge		500	0	
Food Service		400	0	
Loading Dock		300	0	
Storage		500	0	
Server Room		200	0	
IT Room	- 21	150	0	
	NSF	2,050	900	90
STEM Building Total NSF		52,239	18,673	23,050
Net to Gross Factor		65%	65%	65
Building Total DGSF		80,368	28,728	35,46





Perkins&Will

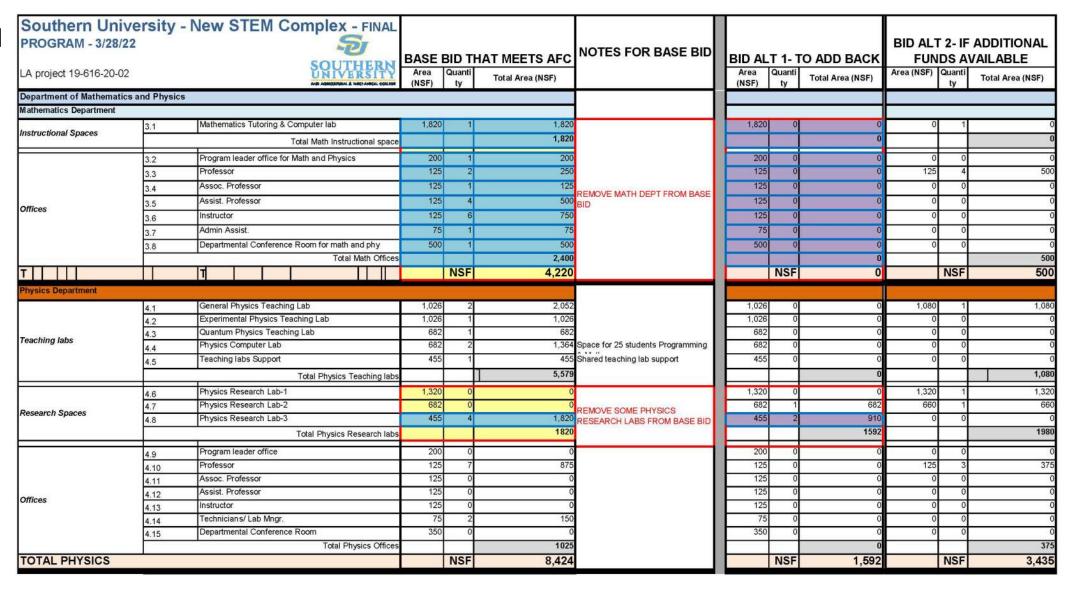
### SPACE PROGRAM







### SPACE PROGRAM







### SPACE PROGRAM

Southern L	Jniversity -	New STEM Complex - FINAL										
PROGRAM - 3/		Si	l							BID ALT	2- IF	<b>ADDITIONAL</b>
te livromatera e ne e Albana and	Antonia de la compania		BASE	RID T	HAT MEETS AFC	NOTES FOR BASE BID	BID A	LT 1-	TO ADD BACK	The section of the first that the		VAILABLE
A project 19-616-	-20-02	SOUTHERN	Area	Quanti	Total Area (NSF)	1 1	Area	Quanti	Total Area (NSF)	Area (NSF)	Quanti	Total Area (NSF)
		AND ADMONUNAL & HEICHANGAL COLLING	(NSF)	ty	Total / II da (ITO) /		(NSF)	ty	1014171104411017		ty	1014171104 (11017
Department of Comp							_					
Computer Science Off	fices											
	5.1	Chair	200	0	0	REMOVE COMPUTER SCIENCE	20	23	200	0	0	
Offices	5.2	Faculty	125	0	0	OFFICES FROM BASE BID	12		1500	0	0	
Smees	5.3	Admin Assist.	75	0	0		7	5 1	75	0	0	
	5.4	Departmental Conference Room	350	0	0		35	0 1	350	0	0	
TOTAL COMPU	TER SCIENCE	OFFICES		NSF	0			NSF	2,125		NSF	
Science/Math Edu. SM	/IED											
	6.1	Chair	200	1	200	1 I	20	0 0	0	200	1	20
	6.2	Professor	125	1	125	i I	12	5 0	0	125	5	62
	6.3	Assoc. Professor	125	1	125	i I	12	5 0	0	0	0	
	6.4	Assist. Professor	125	1	125	i I	12	5 0	0	0	0	
Offices	6.5	Faculty	125	1	125		12	5 0	0	0	0	
	6.6	Instructor	125	1	125	2 per office	12	5 0	0	0	0	
	6.7	Research Assistant	75	1	75		7	5 0	0	125	1	1:
	6.8	Departmental Conference Room	350	1	350	1 I	35	0 0	0	350	1	35
TOTAL SMED O	12/25			NSF	1250	i I		NSF	0		NSF	130
DEAN's suite												
	7.1	Dean	400	0	0		40	0 1	400	400	.0	1
	7.2	Assoc dean	200	0			20	0 2	400	200	0	
0.00	7.3	Bus manager	150	0	0		15	0 1	150	150	0	
Offices	7.4	Advancement director	150	0	0	REMOVE DEAN'S SUITE	15	0 1	150	150	0	
	7.5	Admin assistant	100	0	0		10	0 1	100	100	0	
	7.6	Departmental Conference Room	500	0	0		50	0 1	500	500	0	
TOTAL DEAN'S	SUITE OFFICE	S		NSF	0			NSF	1,700		NSF	
Shared Use Spaces											_	
Classrooms						1 1						
	8.1	Classroom - Small (30 students)	682	10	6,820	30 person	68	2 0	0	400	2	80
	8.2	Classroom- Medium (45 Students)	1,024	2	2,048	45 person	1,02	4 0	0	1,080	2	2,1
	8.3	Classroom Scale-up Medium (50 students)	1,365	3	4,095	50 person	1,36	5 0	0	1,350	2	2,7
		Classroom Scale-up large / Lecture Hall (70 students)	1,960	2	3,920	70 students- make spaces divisible	1,96	0 0	0	0	0	
Classrooms						so both can be combined into 1	10000					
	8.4	Lecture Hall (200 students)	3,000	0	0	space 200 Person - 15 sq.ft., ea.	3,00	0 0	0	3,000	0	
	0.5	Student Success Center	1,195	0		REMOVE STUDENT SUCCESS	1,19		1,195	0	0	
	8.6		-			CENTER						
	8.7	Student Commons	1,195	1	1,195		1,19	5 NSF	0	1,200	NSF	1,2
TOTAL CLASSE				NSF	18,078				1,195			6,86





## SPACE PROGRAM

Southern U	niversity	- New STEM Co	mplex - FINAL	ė.			1							
PROGRAM - 3/2	8/22		S	1			LUCTED FOR BASE BUR					BID ALT	Г 2- IF	ADDITIONAL
				BASE	BID T	THAT MEETS AFC	NOTES FOR BASE BID	F	BID AL	T 1- T	TO ADD BACK	FUN	DS A	VAILABLE
LA project 19-616-20	)-02		SOUTHERN UNIVERSITY AND ADMINISTRANCE COLLEGE		Quanti ty		L		Area (NSF)	Quanti ty	Total Area (NSF)	Area (NSF)	Quanti ty	Total Area (NSF)
Amenities														
	9.1	Graduate Student Bullpen	<u> </u>	900	C.25 U	0	REMOVE GRAD BULLPEN		900	1	900	2000	53.	900
	9.2	Faculty Lounge		500		500	3	L	500	0	0	500		0
	9.3	Food Service - Coffee & Gra	ab in Go	400		1 400	3	L	400	0	0	400		0
Amenities	9.4	Loading Dock		300	133	300			300	0	0	300	(3)	0
	9.5	Storage Room		500		500		L	500	0	0	500	2.0	0
1	9.6	Server rm		200	200	1 200		L	200	0	0	200		0
	9.7	IT room		150	4 1	1 150	1 /	-	150	U	0	150	U	
TOTAL AMENITIE	S				NSF	2,050	/			NSF	900		NSF	900
Total Net Area	a					52,239					18,673			23,050
Gross Factor (C	irculation/S	tructure/MEP)			65%	28,129				65%	10,055		65%	12,412
Total Gross A	rea					80,368					28,728			35,462
			· · · · · · · · · · · · · · · · · · ·	Cost per	r sq. ft	\$471								
ADDITIVE GROS	S AREA TO	OTAL- BASE BID THA	T MEETS AFC			80,368	A	. 31						
ADDITIVE GROS	S AREA TO	OTAL- BASE BID PLUS	S ALT 1								109,095			
ADDITIVE GROS	S AREA TO	OTAL- BASE BID PLUS	S ALT 1 PLUS AL	T 2										144,557
Target GSF			107,500											
Budget Available for	Construction	\$7	\$37,850,000											
Target Cost per square	e foot	\$	352 (This num	mher is too	low har	sed on current market cos	oto)					ı		





#### STATEMENT OF PROBABLE COST - SUMMARY

The following Statement of Probable Cost is based upon our professional opinion which has been gleaned from multiple projects, similar in size and scope, that have been bid or have received design phase cost estimates from CMAR's at various stages of design.

We are witnessing unprecedented volatility in the construction industry due to skyrocketing cost escalation. The COVID 19 pandemic has severely impacted supply chains, reduced raw and finished material production capacity and made pre-pandemic labor shortages even worse. In addition to that, we are now dealing with rising inflation which will continue to cause cost increases even as the pandemic becomes more manageable as it hopefully enters endemic stages.

As a result of this volatility, we cannot guarantee that pricing at this early in the design process is accurate. It is imperative that a CMAR be brought on board as soon as possible, but definitely prior to beginning the Design Development phase in order to confirm that the estimate is on target and aligned to the project scope. Otherwise, we may proceed with designing a building that either cannot be built within the budget, or, equally as concerning, leaves program on the table due to being well below budget.

			FER CENT	AMOUNT
DIVISION	1	General Requirements	9.0%	\$3,406,500
DIVISION	2	Existing Conditions	2.0%	\$757,000
DIVISION	3	Concrete	7.0%	\$2,649,500
DIVISION	4	Masonry	2.0%	\$757,000
DIVISION	5	Metals	11.0%	\$4,163,500
DIVISION	6	Woods and Plastics	2.0%	\$757,000
DIVISION	7	Thermal & Moisture Protection	5.0%	\$1,892,500
DIVISION	8	Openings	10.0%	\$3,785,000
DIVISION	9	Finishes	10.0%	\$3,785,000
DIVISION	10	Specialties	1.0%	\$378,500
DIVISION	11	Equipment	1.0%	\$378,500
DIVISION	12	Furnishings	0.5%	\$189,250
DIVISION	13	Special Construction	0.0%	\$0
DIVISION	14	Conveying Equipment	1.0%	\$378,500
DIVISION	21	Fire Suppression	1.5%	\$567,750
DIVISION	22	Plumbing	17.0%	\$6,434,500
DIVISION	23	Heating, Ventilating & Air Conditioning	*incl. abv.	\$0_
DIVISION	26	Electrical	15.0%	\$5,677,500
DIVISION	27	Communications	*incl. abv.	\$0
DIVISION	31	Earthwork	3.0%	\$1,135,500
DIVISION	32	Exterior Improvements	1.0%	\$378,500
DIVISION	_		1.0%	\$378,500
DIVISION	_			
TOTAL CONS	STRUG	CTION COST OF BASE BID	100%	\$37,850,000
ALTERNATES	Š:			
NUMB	ER 1	Additional Program - 28,728 SF		\$13,529,698
NUMB		Additional Program - 35,462 SF		\$16,701,133
NUMB	ER3			
TOTAL CONS	TRUCT	TION COST (BASE BID AND ALTERNATES)		\$68,080,831
ESTIMATED C CD Phase only. A		OF TESTING LABORATORY SERVICES cope of services.		
The foregoing is required.	ncludes	the most common divisions of the CSI 49 Division	on Format. Others	s may be added as

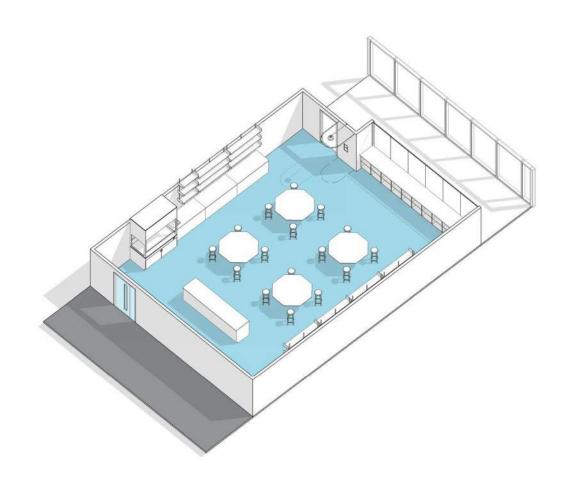
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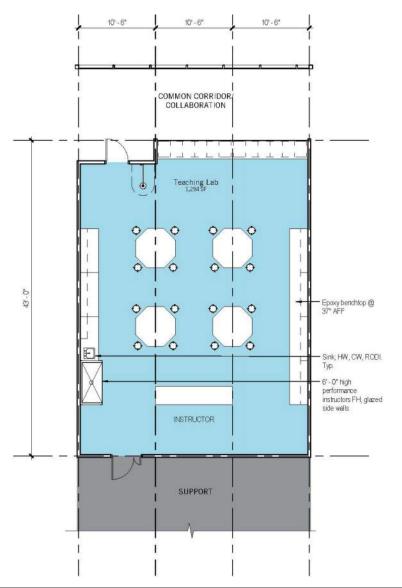
AMOUNT





LAB FLEXIBILITY - program, utilization + growth



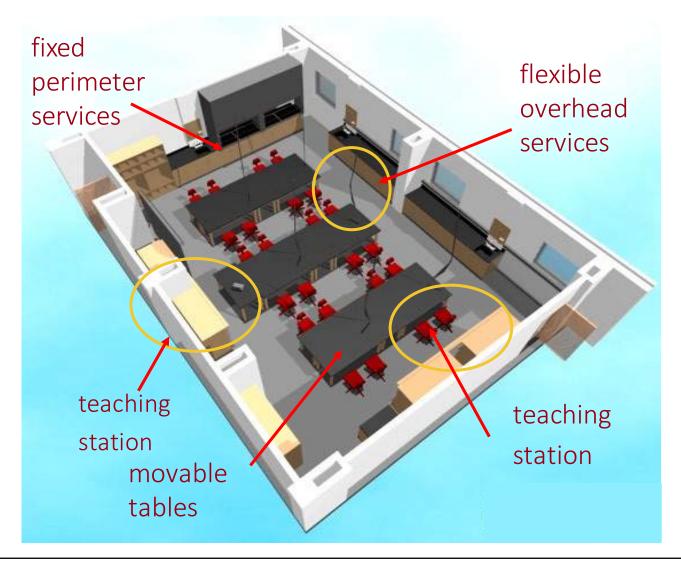


University of Kansas, Integrated Science Building





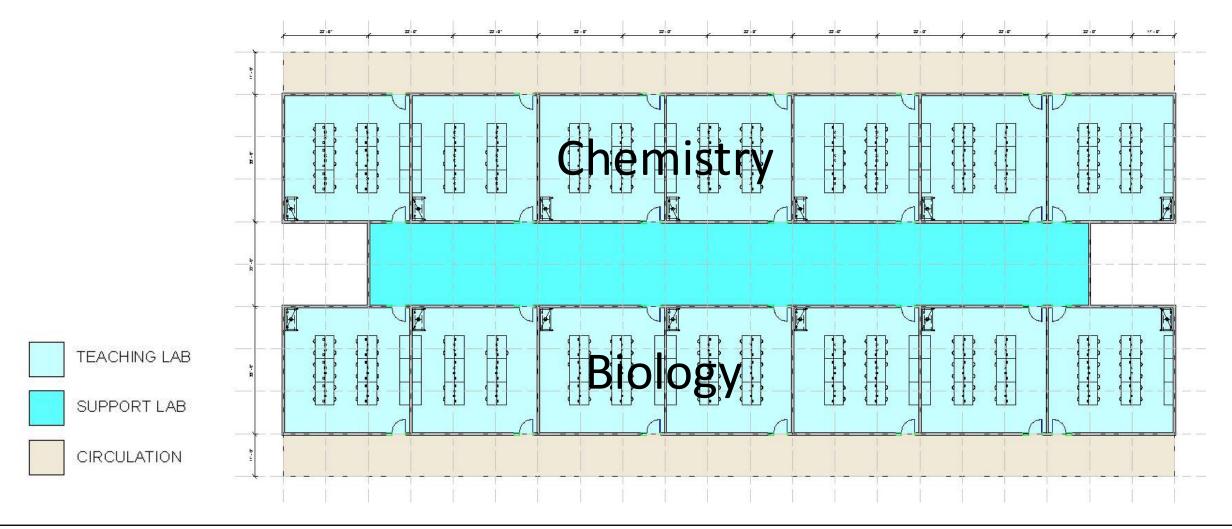
### TEACHING LAB FLEXIBILITY — Common Program Elements



- Multiple "teaching zones"
- Space for equipment, carts, mobile experiments
- Microscopes
- Specimen display and storage
- Deep sinks
- Mix of Simulations and hands on

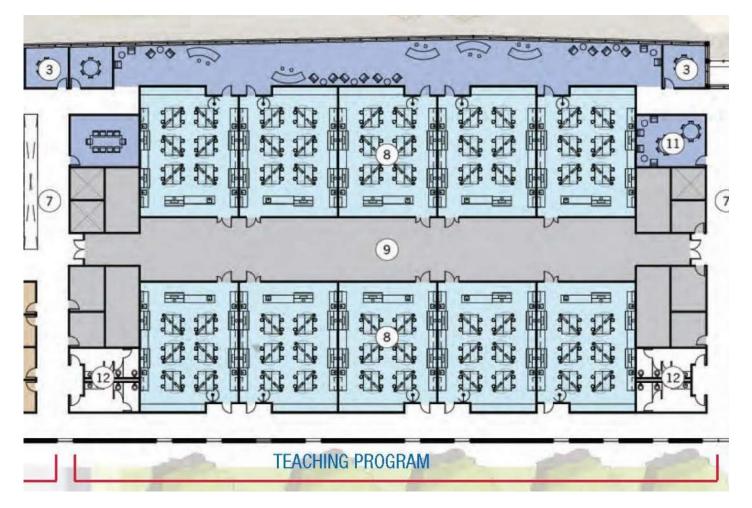


### TEACHING LAB FLEXIBILITY — Shared Lab Support Core Design





### TEACHING LAB FLEXIBILITY — Service Corridor Concept





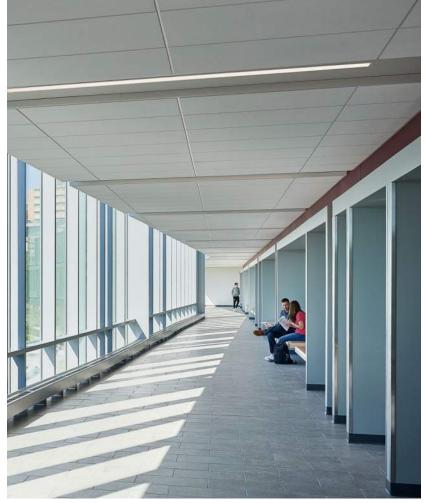




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## **DESIGN CONSIDERATIONS**TEACHING LAB FLEXIBILITY







## **DESIGN CONSIDERATIONS**TEACHING LAB FLEXIBILITY





### **SITE ANALYSIS**





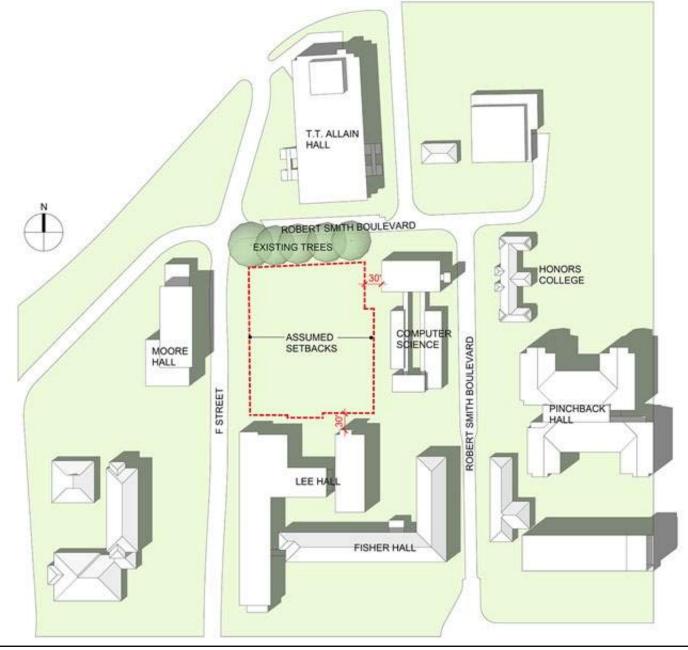
### **SITE OPPORTUNITIES**





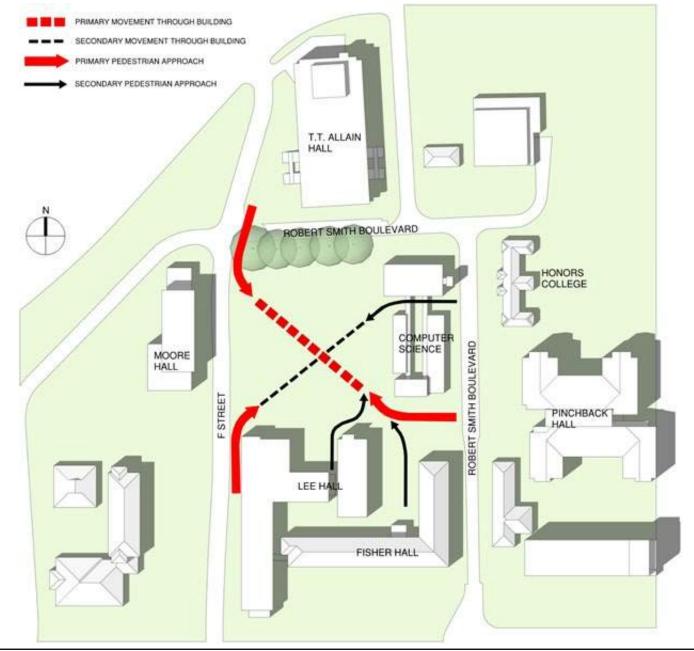
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## **SITE OPPORTUNITIES**SETBACKS



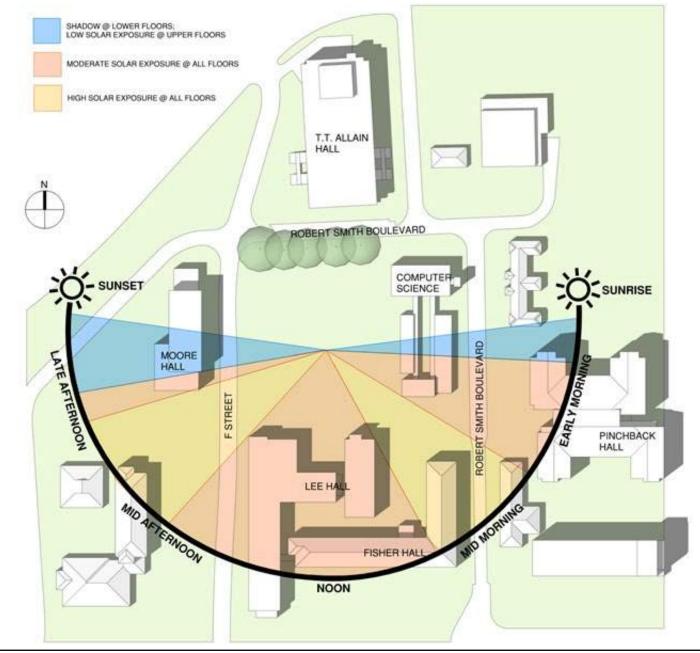


## SITE OPPORTUNITIES ACCESS





## **SITE OPPORTUNITIES**SOLAR EXPOSURE

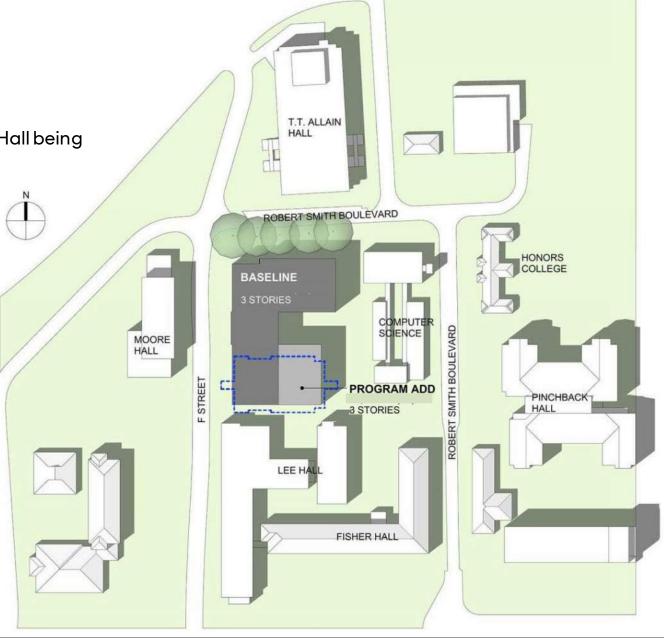




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**SITE OPPORTUNITIES**MASSING

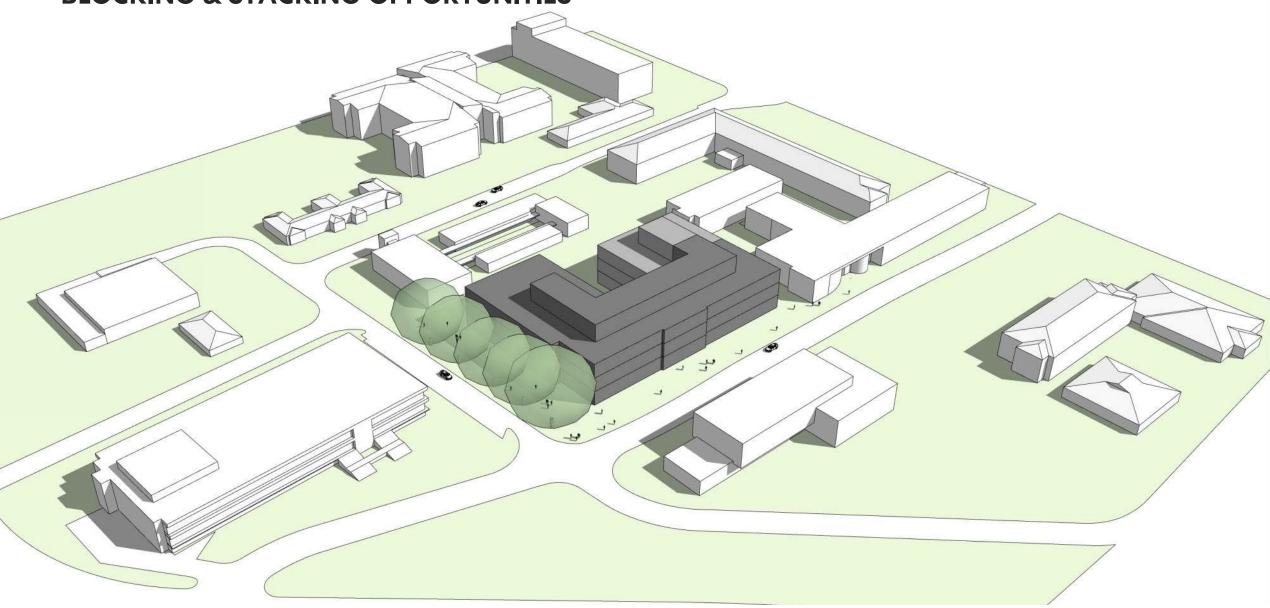
\* These massing studies show James Hall being demolished







### **BLOCKING & STACKING OPPORTUNITIES**









### **BLOCKING & STACKING OPPORTUNITIES**







### **APPENDIX**

Programming Submittal, March 7<sup>th</sup> 2022





### **ANALYSIS OF FALL 2021 ENROLLMENT - UTILIZATION**

#### Chemistry - Fall 2021

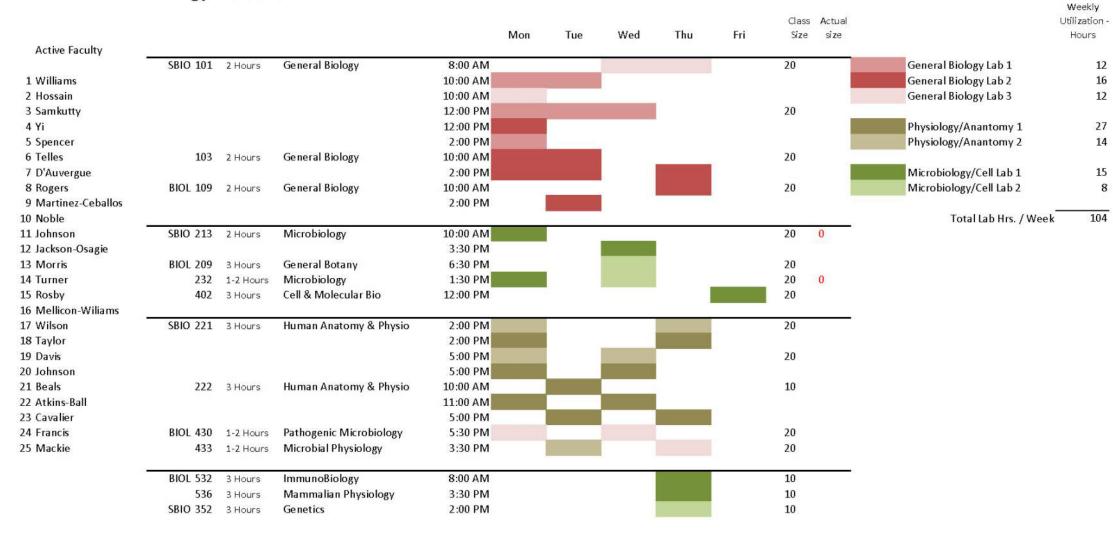
Active Faculty					Mon	Tue	Wed	Thu	Fri	Class Size	Actual size		Utilization - Hours
Active raculty	SCHE 100	3 Hours	General Chemistry	8:00 AM						20		General Chemistry Lab 1	27
1 Harris				11:00 AM								General Chemistry Lab 2	15
2 Doomes				2:00 PM		74						General Chemistry Lab 3	18
3 Jahan				5:00 PM								General Chemistry Lab 4	3
4 Jones													
5 Thomas	SCHE 132	3 Hours	General Chemistry	8:00 AM						20	i i	Organic Chemistry Lab	12
6 Walker				11:00 AM									
7 Wang				2:00 PM								Biohemistry Lab	9
8 Lei	SCHE 133	3 Hours	General Chemistry	2:00 PM						20	7.0		
9 Robertson	20		000000000000000000000000000000000000000	10-0-0-00								Specialty Lab Instruments	6
10 Porch	CHEM 210	3 Hours	Organic Chemistry	8:00 AM						16	5		
11 Washington	342	3 Hours	Biochemistry I	8:00 AM						20		Total Lab Hrs. / Week	90
12 Logan	343	3 Hours	Biochemistry II	2:00 PM		9							
13 Cornell - Lab Mngr		- 10 11 to 12 more 10 to	1104-1407-1404-1407-1404-1407-1407-1407-										
14 Hurst - Lab Mngr	SCHE 220	3 Hours	Organic Chemistry I	11:00 AM						20	\$3		
	221	3 Hours	Organic Chemistry II	11:00 AM						20			
	SCHE 243	3 Hours	Quantitative Analysis	11:00 AM				t e		20	2		
	CHEM 314	3 Hours	Physical Chemistry	2:00 PM						15			



Weekly

### **ANALYSIS OF FALL 2021 ENROLLMENT - UTILIZATION**

Biology - Fall 2021





### **ANALYSIS OF FALL 2021 ENROLLMENT - UTILIZATION**

Physics - Fall 2021

					Mon	Tue	Wed	Thu	Fri	Class Size	Actual size		Utilization - Hours
Active Faculty	-		RIVE CON ARRODS	W (0.00) (2.00) (1.00)									
	SPHY 102	2 Hours	Physical Science	8:00 AM						25		General Physics Lab 1	10
1 Henry				10:00 AM								General Physics Lab 2	10
2 Malozovsky				1:00 PM								General Physics Lab 3	8
3 Lam				3:00 PM									
4 Reese				3:30 PM						40			
5 Zhao	<b>SPHY 103</b>	1 Hour	Physical Science	10:00 AM						25	5		
6 Robins												Physics Equipment lab	4
7 Rambabu	SPHY 211	2 Hours	Elements Physics	1:30 PM						40		Negarino de la companie de des de la companie	
8 Stewart				3:50 PM		-						Total Lab Hrs. / Week	32
9 Shin	212	2 Hours	<b>Elements Physics</b>	3:30 PM						40	7		
10 Miranda	Se	ASSOCIATION NO.		22-49-2019 P-902 P-902 P-902									
11 Gao	SPHY 213	2 Hours	General Physics	8:00 AM						25	•		
12 Stacy				10:00 AM									
				1:00 PM									
				3:00 PM									
	214	2 Hours	General Physics	8:00 AM						24	6		
				10:00 AM			· ·						
				3:00 PM									



Weekly

### **ANALYSIS OF SPRING 2022 ENROLLMENT - UTILIZATION**

#### Chemistry - Spring 2022

					212	_			200	Class			Utilization -
Active Faculty					Mon	Tue	Wed	Thu	Fri	Size	size		Hours
Active racuity	SCHE 100	3 Hours	General Chemistry	8:00 AM						20		General Chemistry Lab 1	18
1 Harris				11:00 AM								General Chemistry Lab 2	9
2 Doomes				2:00 PM								General Chemistry Lab 3	18
3 Jahan				5:00 PM								General Chemistry Lab 4	12
4 Jones												Provide the red trainer of the self-obtained as new testion (** ** ** ** ** ** ** ** ** ** ** ** **	
5 Thomas	SCHE 132	3 Hours	General Chemistry	8:00 AM						20	W.	Organic Chemistry Lab	9
6 Walker				11:00 AM									
7 Wang				2:00 PM								Biohemistry Lab	9
8 Lei				-									
9 Robertson	SCHE 133	3 Hours	General Chemistry	2:00 PM						15		Specialty Lab Instruments	8
10 Porch					=		il Ne	- 13					
11 Washington	CHEM 212	3 Hours	Biochemistry	11:00 AM			119		ı		9)		
12 Cornell - Lab Mngr	342	3 Hours	Biochemistry I	9:00 AM									
13 Hurst - Lab Mngr	343	3 Hours	Biochemistry II	2:00 PM		;							
	SCHE 220	3 Hours	Organic Chemistry I	2:00 PM		1				30			
		3 Hours	Organic Chemistry II	8:00 AM						20			
			•	2:00 PM									
	SCHE 243	3 Hours	Quantitative Analysis	9:00 AM				i i		15	4		
	CHEM 315	3 Hours	Physical Chemistry	2:00 PM			ı			15	3		
	CHEM 450	2 Hours	Instrumental Analysis	6:30 PM				,		8	3		





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Weekly

### **ANALYSIS OF SPRING 2022 ENROLLMENT - UTILIZATION**

Biology - Spring 2022

										Class	Actual		Utilizati
					Mon	Tue	Wed	Thu	Fri	Size	size		Hour
Active Faculty													
	SBIO 101	2 Hours	General Biology	8:00 AM						20		General Biology Lab 1	
1 Williams				10:00 AM								General Biology Lab 2	
2 Cullins				6:30 PM								General Biology Lab 3	
3 Hossain	102	2 Hours	General Biology	8:00 AM			7/1			20			
4 Samkutty				10:00 AM								Physiology/Anantomy 1	
5 Yi				2:00 PM								Physiology/Anantomy 2	
6 Spencer	103	2 Hours	General Biology	9:30 AM						20			
7 Telles	BIOL 109	3 Hours	General Biology	12:00 PM						20		Microbiology/Cell Lab 1	
8 Dubytska				3:30 PM								Microbiology/Cell Lab 2	
9 D'Auvergue													
10 Rogers	SBIO 213	2 Hours	Microbiology	10:00 AM						20			
11 Martinez-Ceballos				12:00 PM									
12 Noble	BIOL 232	1-2 Hours	Microbiology	1:30 PM						20			
13 Johnson	402	3 Hours	Cell & Molecular Bio	10:00 AM	T <sub>i</sub>		9			20	5		
14 Anthony													
15 Layres	SBIO 221	3 Hours	Human Anatomy & Physio	10:00 AM			*			25	¥),		
16 Jackson-Osagie				5:00 PM									
17 Morris	222	3 Hours	<b>Human Anatomy &amp; Physio</b>	6:30 PM						20			
18 Atkins-Ball	223	1.5 Hours	Comparative Anatomy	3:30 PM						10	8		
19 Turner	BIOL 442	3 Hours	Animal Physiology	2:30 PM						20			
20 Rosby	540	3 Hours	Reproductive Physiology	3:30 PM						20	3		
21 Mellicon-Wiliams													
22 Wilson	BIOL 450	3 Hours	Microbial Genetics	5:30 PM						20	8		
23 Taylor													
24 Davis	SBIO 233	1.5 Hours	Comparative Anatomy	3:30 PM						10	8		
25 Johnson	361	3 Hours	Vertibrate Histology	2:00 PM						20			
26 Beals	450	3 Hours	Vertibrate Embryology	2:00 PM						20			
27 Ogunkoya													



Weekly

12 10

12 12

10 8

### **ANALYSIS OF SPRING 2022 ENROLLMENT - UTILIZATION**

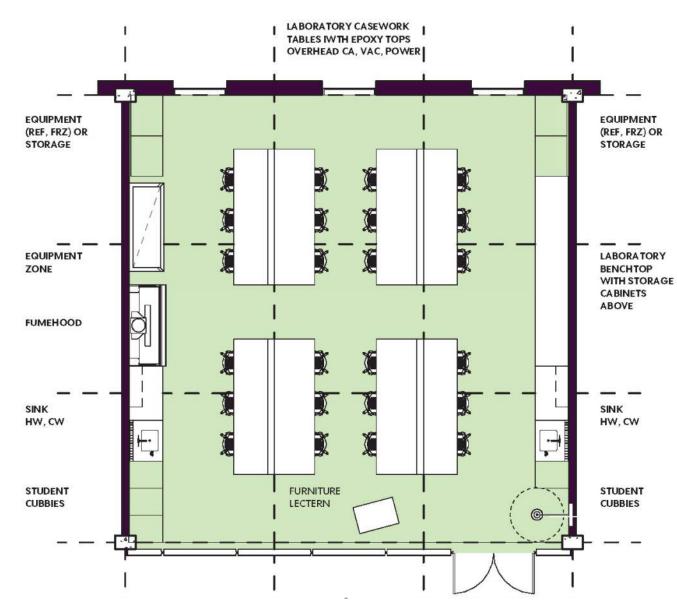
Physics - Spring 2022

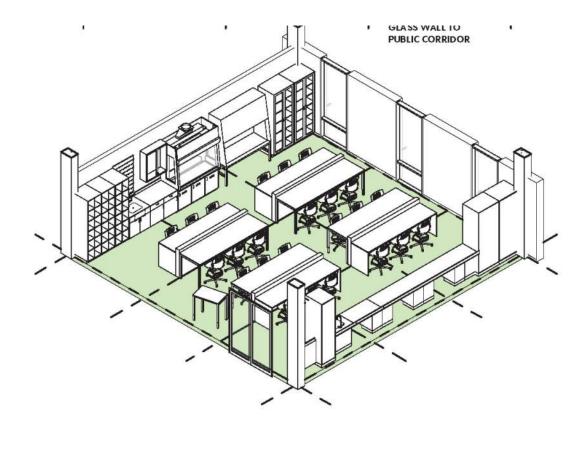
						4					Actual		Utilization -
Active Faculty					Mon	Tue	Wed	Thu	Fri	Size	size		Hours
	SPHY 102	2 Hours	Physical Science	8:00 AM						20		General Physics Lab 1	10.5
1 Henry				10:00 AM								General Physics Lab 2	5.5
2 Malozovsky												General Physics Lab 3	3.5
3 Lam	SPHY 211	1.5 Hours	Elements Physics	1:00 PM						25			
4 Fazely				1:00 PM								Physics Equipment lab	0
5 Reese				4:00 PM							8		
6 Zhao													
7 Bayayoko	SPHY 213	2 Hours	General Physics	1:00 PM						25			
8 Robins				3:00 PM									
9 Rambabu				3:00 PM									



Weekly

### **EXAMPLE PLANS – MICROBIOLOGY – 24 SEATS**

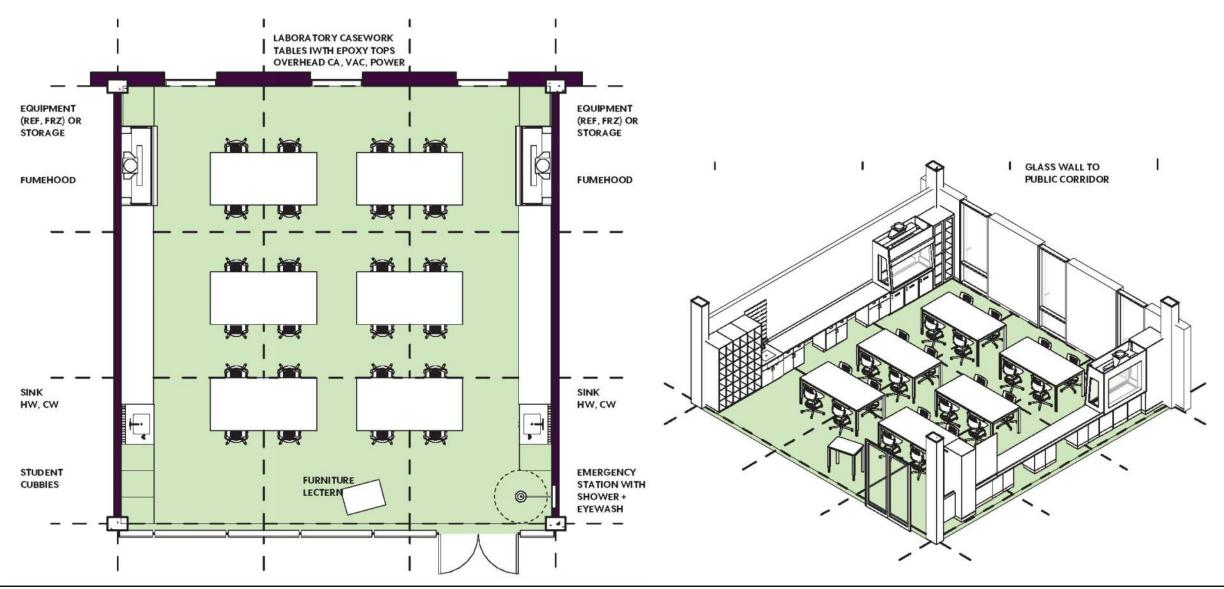






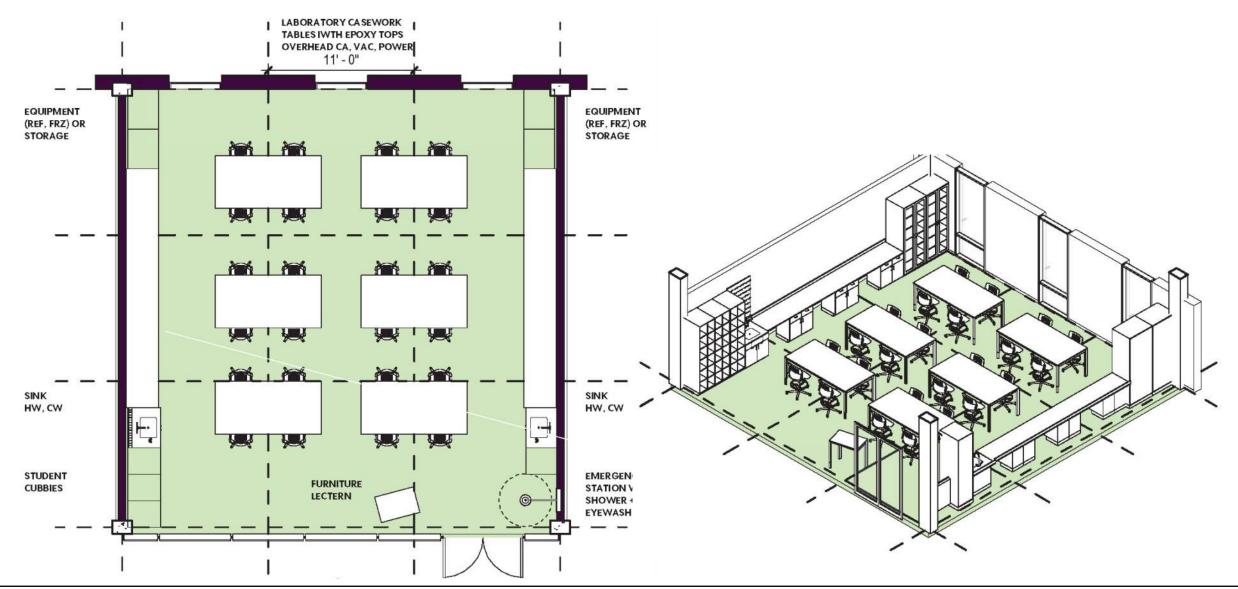


### **EXAMPLE PLANS – BIOCHEMISTRY – 24 SEATS**

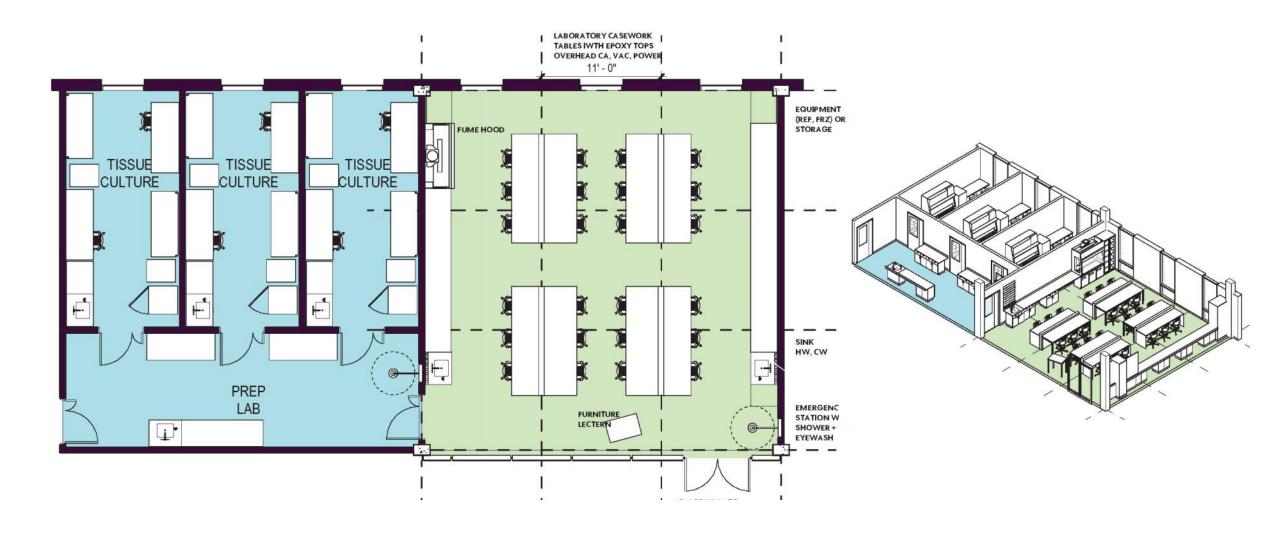


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### **EXAMPLE PLANS – PHYSIOLOGY – 24 SEATS**

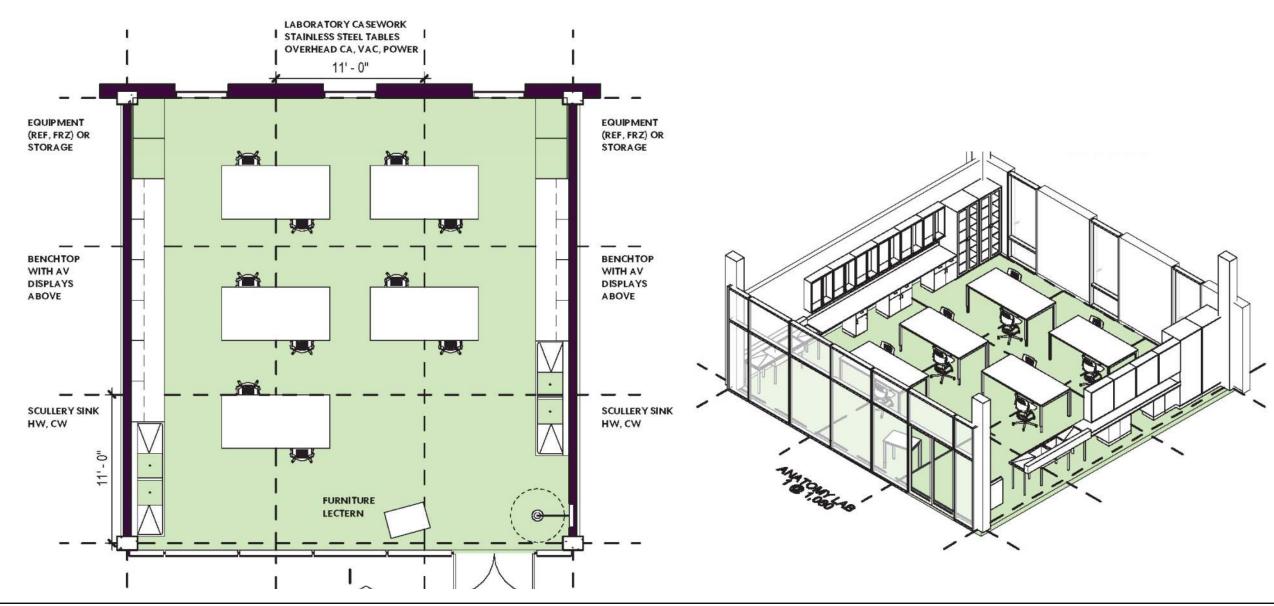


### **EXAMPLE PLANS – CELL BIOLOGY – 24 SEATS**





### **EXAMPLE PLANS - ANATOMY - 10 SEATS**



### **TIME SCHEDULE**

Date Prepared: 3/29/2021 TIME SCHEDULE Project Name\_New STEM Complex Southern University Baton Rouge User Southern University Baton Rouge Location Project No. 19-616-20-02 WBS No. F.19002357 Date of Pre-Design Conference 10/6/2021 Original Contract Time Number of Review Days 180 (Per Exhibit "A") 60 (Per Exhibit "A") 120 Number of Design Days DAYS REVIEW PHASE SUBMITTAL ORIGINAL REVISED DATE DUE EXT DUE DATE DAYS 134 20 11/15/2021 3/29/22 Program Completion 12/26/2021 40 134 Schematic Design 5/9/22 0 4/4/2022 134 8/16/22 Design Development Construction Documents Bid Documents NOTE: This form is to be completed and submitted with the minutes of the Pre-Design Conference, and with each Design Submittal.





### STATEMENT OF PROBABLE COST

#### Facility Planning & Control STATEMENT OF PROBABLE COST

PROJECT NO		TEM Complex 616-20-02		WBSNO	F.19002357
	-	hern University   Baton Rouge, LA			
	_	IONAL: Manning, APC   Coleman Parts	en LLC	AJV	
		A BEING CONSTRUCTED:	2000 = 100	80,368	sq.ff.
TOTAL EXIS	TING	AREA BEING RENOVATED:			sq.ft.
PROJECT PE	LASE:	Programming A F	C \$37,		
			PER	CENT	AMOUNT
DIVISION	1	General Requirements	9.0*		\$3,406,500
DIVISION	2	Existing Conditions	2.01		\$757,000
DIVISION	3	Concrete	7.05		\$2,649,500
DIVISION	4	Masomy	2.05		\$757,000
DIVISION	5	Metals	11.0	7%	\$4,163,500
DIVISION	6	Woods and Plastics	2.05	6	\$757,000
DIVISION	7	Thermal & Moisture Protection	5.05		\$1,892,500
DIVISION	8	Openings	10.0	/s	\$3,785,000
DIVISION	9	Finishes	10.0	25	\$3,785,000
DIVISION	10	Specialties	1.05		\$378,500
DIVISION	11	Equipment	1.05		\$378,500
DIVISION	12	Furnishings	0.5	6	\$189,250
DIVISION	13	Special Construction	0.0*		\$0
DIVISION	14	Conveying Equipment	1.0*		\$378,500
DIVISION	21	Fire Suppression	1.51		\$567,750
DIVISION	22	Plumbing	17.0	ń4	\$6,434,500
DIVISION	23	Heating, Ventilating & Air Condition	ng *inc	l abv.	\$0
DIVISION	26	Electrical	15.0	756	\$5,677,500
DIVISION	27	Communications	*inc	l abv.	\$0
DIVISION	31	Earthwork	3.01		\$1,135,500
DIVISION	32	Exterior Improvements	1.05	4	\$378,500
DIVISION	_	6566	1.05		\$378,500
DIVISION	_				
TOTAL CON	STRU	CTION COST OF BASE BID	100	4	\$37,850,000

NUMBER 1	Additional Program - 28,728 SF	\$13,529,698
NUMBER 2	Additional Program - 35,462 SF	\$16,701,133
NUMBER 3		
TOTAL CONSTRUCTION COST (BASE BID AND ALTERNATES)		\$68,080,831
ESTIMATED COST	OF TESTING LABORATORY SERVICES	

The foregoing includes the most common divisions of the CSI 49 Division Format. Others may be added as required.



