

## **Discussion Agenda**

### EESRB Design Recap

- 1. Brief History of the Programming and Design Process
- 2. Current Floor Plans
- 3. Design Renderings
- 4. Construction Photos
- 5. Upcoming User Group Tours
- 6. Questions and Discussion

# **Project Timeline**

Initial Programming	May 2013
Program Update	July 2018
Request For Qualifications	August 2018
Interview	October 2018
Program Verification	December 2018
Surge Design Phases	December 2018 – June 2019
EESRB Design Phases	January 2019 – July 2020
Surge Completion	December 2020
Anticipated EESRB Completion	April 2024   Opening in Fall 2024

# **Space Allocation Summary Timeline**

		12/05/13	07/20/18	12/21/18
1.0 Herbert College of Agriculture   Classrooms, Classroom Support + Informal Learn	ning Spaces			
1.1 Classrooms		11,123	21,325	24,025
1.2 Informal Learning & Collaboration		2,975	7,575	9,175
2.0 Offices & Dedicated Department Space				
2.1 Biosystems Engineering & Soil Sciences (BESS)		8,180	8,030	8,785
2.2 Entomology & Plant Pathology		8,763	8,523	8,915
2.3 Forestry, Wildlife & Fisheries		17,023	16,386	16,395
2.4 Plant Sciences		16,360	15,670	14,583
2.5 IACUC   OHP   OLAC		3,573	3,153	2,265
2.6 Smith International Center			1,500	1,470
2.7 Southern Research Station - Forest Inventory & Analysis		9,760	÷	-
3.0 Building Support Spaces				
3.1 Building Support		4,135	5,080	5,580
3.2 Future Laboratory Space		9,450	3,780	-
	Total Program NSF	91,342	91,022	91,193
	Efficiency Ratio	0.58	0.58	0.58
	Total Program GSF	157,486	156,934	157,474

#### 407 Meeting Minutes [cont]

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ARCHITECTURE

#### MEETING NOTES

PROJECT NAME	PROJECT NUMBER		
UTIA Energy & Environmental Science Education Research Center	10218-03		
DATE OF MEETING	TIME		
October 10, 2012	See Meeting Schedule		
MEETING LOCATION	PURPOSE		
	Program Progress Wrap-Up		
PARTICIPANTS	EMAIL		
Tim Fawver, UTIA	tfawver@utk.edu		
Tom McKeehan, UT	tim@tennessee.edu		
Steve Glafenhein, UTIA	sglafenh@utk.edu		
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Doug McCarty, MHM	dmccarty@mhminc.com		
DISTRIBUTION	VIA		
PARTICIPANTS			
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John Starr, LAS	istarr@lasarchitect.com		
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Scott Webb, MHM	swebb@mhminc.com		
Jeff Linde, N&B	ilinde@newcomb-boyd.com		
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Issue No.	DATE	Issue	ACTION BY DATE DUE STATUS
1		Reviewed Progress:	
		<ul> <li>Ellington Existing Space Use</li> </ul>	
		<ul> <li>Reviewed Program of Spaces for the EESERC</li> </ul>	
2		General Classrooms:	
		<ul> <li>Current funding source is by UTIA, no funding by UTK.</li> </ul>	
		<ul> <li>Based on current funding, the Program should be based on matching Ellington vs. increasing.</li> </ul>	
3		Renovations in the next 10 years are planned for:	
		<ul> <li>Morgan Hall</li> </ul>	

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Energy + Environmental Science Education Research Center University of Tennessee - Institute of Agriculture - Knoxville UTIA Energy & Environmental Science Education Research Center Program Progress – Wrap-Up Meeting October 29, 2012 Page 2

	McCord	
4	PBB is a recently constructed building, the priority is to keep current spaces functions in PBB rather than move them to the EESERC. The priority is to relocate existing functions in Ellington in the new EESERC.	
5	Multi-Use Large Meeting Space (Hollingsworth replacement):	
	<ul> <li>May get additional funding/donations for this space, Board of Trustics meet in this space.</li> </ul>	
	<ul> <li>The space should accommodate 500 occupants in a banquet stile. The current Program accommodates 500 in lecture seating, but not is banquet stile – this will add square footage.</li> </ul>	
6	Potential lease costs from FIA and NRC to be factored in the budget.	Steve
7	If the budget is increased, it'll take additional time, approximately one year, to get approved.	
8	Food Service: Currently including an area for a coffee shop – not required to use ARA Mark on the AG Campus.	
9	Shell Space Option:	Steve
	<ul> <li>As an option to keep initial cost down while planning for future needs, look at shelling out space to fit-out in the future.</li> </ul>	
10	Needs/Wants:	Barry/Steve
	<ul> <li>Review and gather from Users what is critically needed vs. wants to look at the minimum program.</li> </ul>	
11	Next Steps:	Becky/Barry
	<ul> <li>Update Space List and Space Diagrams (LAS)</li> </ul>	
	<ul> <li>Look at reduced Program</li> </ul>	
	<ul> <li>Program and Cost Estimate to Steve to present to Executive Committee.</li> </ul>	John/Barry/ Doug

#### ATTACHMENTS

PREPARED BY	Barry M. Abrams, AIA	DATE PREPARED	October 29, 2012
	Lord, Aeck & Sargent, Inc.		

These nodes summarized our understanding of the meeting. *Project actions will be based on these notes. Please contact the writer immediately if tou do not concur.* 

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#### .04 May 2018 PROGRAM REVISIONS

- 1. Southern Research Station | Inventory & Analysis (9,760 NSF) has been removed from the program
- 2. Include Smith International Center (1,500 NSF)
- 3. Include College of Veterinary Medicine Classrooms (6,750 NSF)
- 4. Reduce standard Faculty Office size from 150nsf to 120nsf
- 5. Reduces overall sf of remaining office space by 2,220nsf [74 offices]
- 6. Increase Lobby size from 800nsf to 1,600nsf
- 7. Add 8 Small Collaboration areas for a total of 1,200nsf [150nsf each]
- 8. Renamed 'Faculty-Student Commons' to 'Collaboration Areas medium'; increase to 800nsf per room.
- 9. Increase size of Large Collaboration Space from 600nsf to 1,200nsf
- Adjust Classroom net sf per person to 20sf for seminar, 25sf for classrooms, and 15sf for 500-person Conference Center

#### .05 December 2018 PROGRAM REVISION SUMMARY

- 1. <u>Reduced standard Faculty Office size from 120nsf to 100nsf and Technical/Part-Time Offices from 100nsf to 80nsf.</u> Reallocated nsf to provide additional meeting spaces.
- 2. Revised standard lab module dimension from 10'-6" to 10'-4" to better coordinate with typical brick coursing.
- 3. Refined amount of Research Space for each Department and removed future lab growth.
- 4. Made minor updates to the quantity of offices for each department based on needs.
- 5. Increased size of CVM classrooms to accomodate universal access (ramps).
- 6. Refined Program of Surge Building.

### **Exec Comm Meetings**

1 – 11/5/2018 (attendees on right) 2 – 11/19/2018 3 – 12/17/2018 Dr. Tim Cross, Chancellor Steve Glafenhein Joe Cagle Ashley Hull Dan Smith Thom Haeuptle **Misty Bailey** Jim Thompson Juan Jurat-Fuentes Karen Vail Heather Means Scott Schlarbaum Jennie Swanson Michael Essington Jake Nelson Annette Wszelaki David Anderson Melissa Hines John Starr Kelly Headden Angela Berrier

UT Institute of Agriculture UT Institute of Agriculture UT Institute of Agriculture UT Institute of Agriculture **UT** Facilities Services **UT** Facilities Planning UT College of Veterinary Medicine UT College of Veterinary Medicine UT Entomology & Plant Pathology UT Entomology & Plant Pathology UT College of Animal Sciences UT Forestry, Wildlife & Fish UT Forestry, Wildlife & Fish UT Biosystems Engineering & Soil Sciences **UT Plant Sciences UT Plant Sciences UT Large Animal Clinical Sciences UT Large Animal Clinical Sciences** Lord Aeck Sargent (LAS) BarberMcMurry Architects (BMA) BarberMcMurry Architects (BMA)

### Program Verification Meetings

### 1 – 11/14-16/2018 (attendees on right) 2 – 11/27-29/2018 3 – 12/11-12/2018

#### PS

Steve Glafenhein Joe Cagle Thom Haeuptle Dan Smith Andy Pulte Scott Senseman David Butler Jake Nelson Dawn Seigel John Sorochan John Starr Ben Elliott Kelly Headden UT Institute of Agriculture UT Institute of Agriculture UT Facilities Planning UT Facilities Services UT Plant Sciences Lord Aeck Sargent (LAS) Lord Aeck Sargent (LAS) BarberMcMurry Architects (BMA)

#### + ITS, MEP, SIC, Surge, Task Force

#### Annex B

Steve Glafenhein Joe Cagle Thom Haeuptle Dan Smith Scott Schlarbaum Joe Sarten Bobby Simpson John Starr Ben Elliott Brian Karlowicz Kelly Headden

#### BESS

Steve Glafenhein Joe Cagle Thom Haeuptle Dan Smith Michael Essington Julie Carrier Nour Abdoulmoumine Sindhu Jagadamma Andrew Sherfy Jaehoon Lee Philip Ye John Starr Ben Elliott Kelly Headden

### OLAC/IACUC/OHP

Steve Glafenhein Joe Cagle Thom Haeuptle Dan Smith Brian Ranger Ben Edenfield Michael McEntee Elizabeth Bailev Frankie McGinnis Jerri O'Rourke Bryce Burton Amy Knowles Steve Crouch John Starr Ben Elliott Brian Karlowicz Kelly Headden

UT Institute of Agriculture UT Institute of Agriculture UT Facilities Planning **UT** Facilities Services UT Biosafety UT CVM UT CVM UT IACUC UT IACUC UT IACUC UT OLAC UT OHP UT Safety Office Lord Aeck Sargent (LAS) Lord Aeck Sargent (LAS) Lord Aeck Sargent (LAS)

BarberMcMurry Architects (BMA)

UT Institute of Agriculture

UT Institute of Agriculture

UT Forestry Wildlife & Fish

Lord Aeck Sargent (LAS)

Lord Aeck Sargent (LAS)

Lord Aeck Sargent (LAS)

UT Institute of Agriculture

UT Institute of Agriculture

UT Facilities Planning

UT Facilities Services

Lord Aeck Sargent (LAS)

Lord Aeck Sargent (LAS)

BarberMcMurry Architects (BMA)

BarberMcMurry Architects (BMA)

UT Biosystems Engineering/Soil Science

UT Facilities Planning

**UT** Facilities Services

UT Ag Research

UT ETREC

#### EPP

Steve Glafenhein Joe Cagle Thom Haeuptle Dan Smith Darrell Hensley DeWayne Shoemaker Karen Vail Zach Hansen John Starr Ben Elliott Brian Karlowicz Kelly Headden

#### FWF

Steve Glafenhein Joe Cagle Thom Haeuptle Dan Smith Scott Schlarbaum Jennie Swanson Lisa Muller John Starr Ben Elliott Kelly Headden

### HCA/CVM

Steve Glafenhein Joe Cagle Thom Haeuptle Dan Smith Shelly Olin Ricardo Videla John Schafer John Stier Claudia Kirk Bob DeNovo John Starr Ben Elliott Brian Karlowicz Kelly Headden UT Institute of Agriculture UT Institute of Agriculture UT Facilities Planning UT Facilities Services UT Entomology and Plant Pathology Lord Aeck Sargent (LAS) Lord Aeck Sargent (LAS) BarberMcMurry Architects (BMA)

UT Institute of Agriculture UT Institute of Agriculture UT Facilities Planning UT Facilities Services UT Forestry Wildlife & Fish UT Forestry Wildlife & Fish UT Forestry Wildlife & Fish Lord Aeck Sargent (LAS) Lord Aeck Sargent (LAS BarberMcMurry Architects (BMA)

UT Institute of Agriculture UT Institute of Agriculture UT Facilities Planning UT Facilities Services UT CVM Lord Aeck Sargent (LAS) Lord Aeck Sargent (LAS) BarberMcMurry Architects (BMA)

## **Project Summary**

1 PROJECT – 2 BUILDINGS \$77.77M – Total Construction Budget

### <u>EESRB</u>

- 5 Story 157,500 gsf building
  - Research Labs + Lab Support
  - Teaching Labs + Prep Support
  - Department Suites
  - Faculty Offices
  - Graduate Assistant Write-Up Areas
  - 500 Person Auditorium
  - Tiered Lecture Halls (130 Person)
  - Classrooms (30 100 Person)
- Replaces an Existing Research Building
- Anticipated Completion March 2024

### Surge Building

- 2 Story 20,000 gsf building
  - Research Labs + Lab Support
  - Faculty Offices (Private + Open)
  - Graduate Assistant Write-Up Areas

- Provides Swing Space during Construction
- Completion December 2020

## EESRB Program Summary

### **EESRB** Program

- Herbert College of Agriculture (HCA) -
- 4 Departments
  - Biosystems Engineering and Soil Science
  - Plant Sciences
  - Forestry, Wildlife, and Fisheries
  - Entomology and Plant Pathology
- Compliance Group -
- Smith International Center ——
- College of Veterinary Medicine -
- Public Areas

500P Auditorium, Classrooms, Seminar Rooms

Research Labs + Lab Support Teaching Labs + Prep Support Shared Equipment Areas Department Suites + Storage Needs Faculty Offices + GRA Write-Up Areas

Research Lab, Office Suite

Office Suite

- (2) 130 Person Tiered Lecture Halls
- Collaborative Areas, Living Room, Café

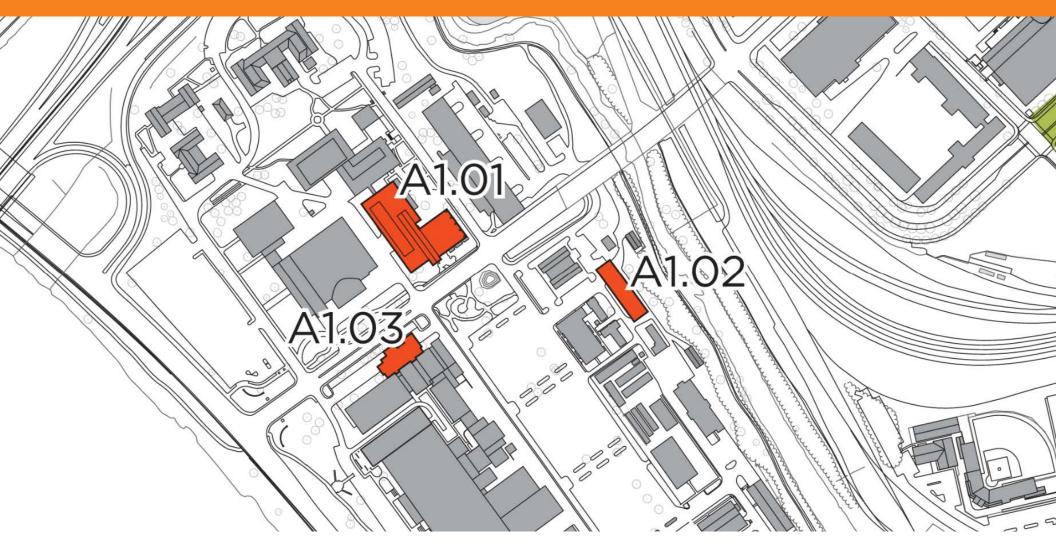
# Space Comparison

	Ellington	EESRB
Private Offices	89 includes GRAs	116 does not include GRAs
Classrooms	7	15 includes CVM
Research Labs	32	25
Teaching Labs	3	4
Informal Learning Seats	40	325

# Research Lab Space Growth

	Research Lab NSF Proposed	Existing Ellington Research Lab NSF Total	% Increase	_
BESS	6,200	3,726	66%	
EPP	3,565	3,001	19%	
FWF	5,890	2,614	125%	
PS	4,650	3,506	33%	
OLAC-OHP-IACUC	465	431	8%	
Sub-Totals	20,770	13,278	56%	
SURGE	5,400	0	-	
Total	26,170	13,278	97%	

# Design History - UTIA Masterplan



# Design History - Campus Photo circa 2016



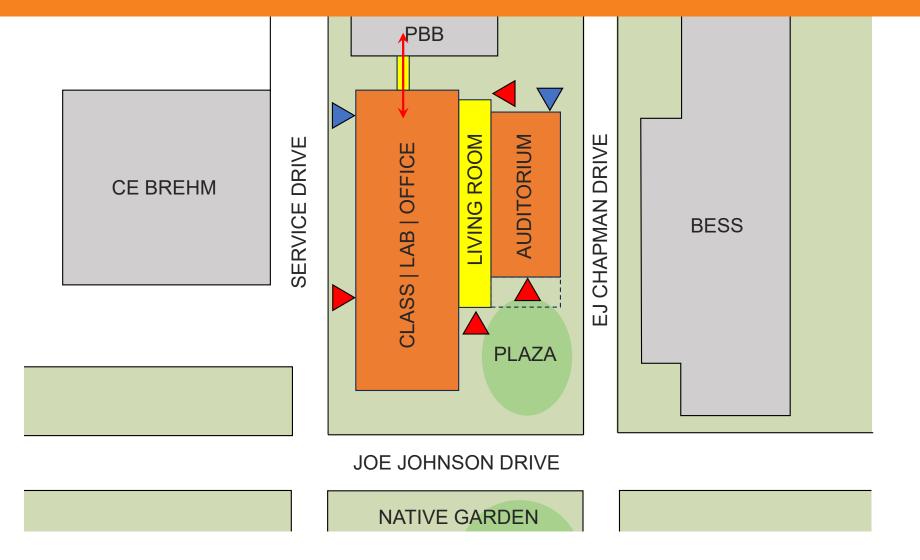




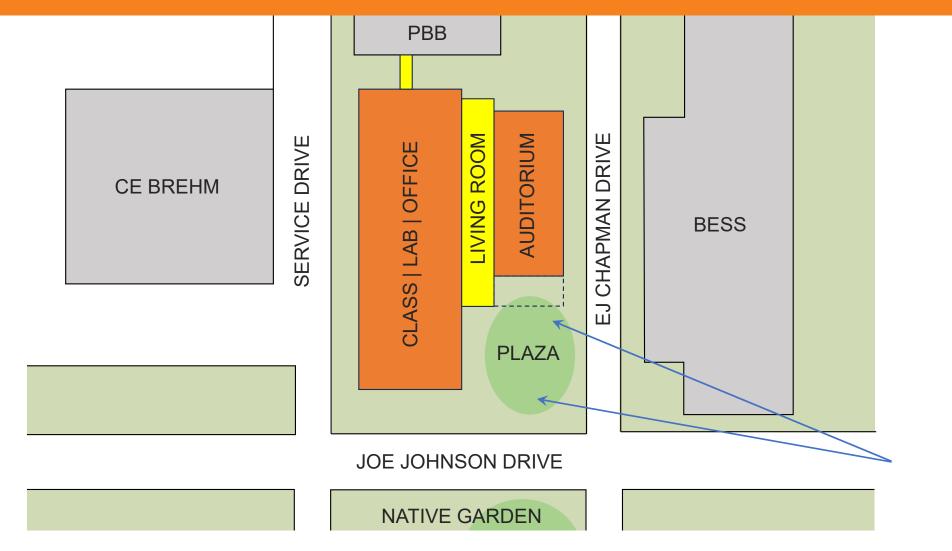
# Site Diagram



## Site Diagram



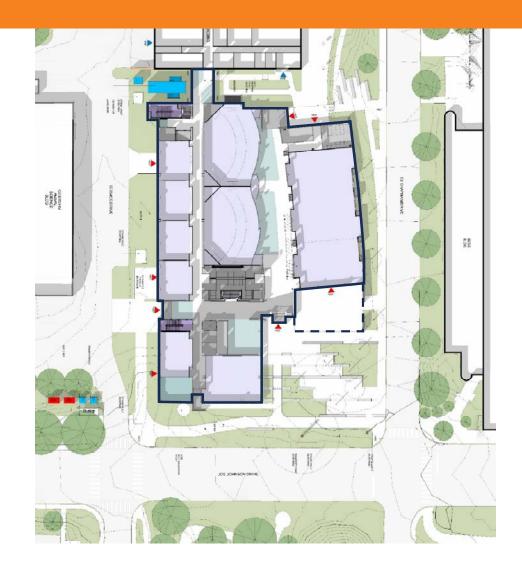
## Site Diagram



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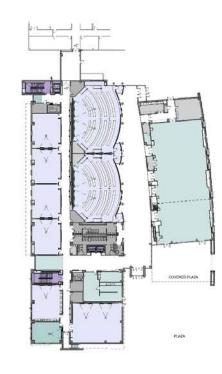


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## Floor Plans by Space Type

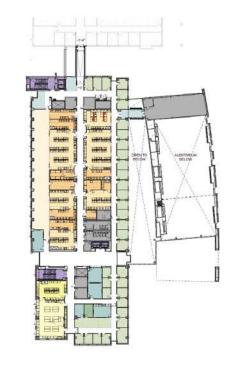






#### FIRST FLOOR

- Lab (Research) Lab (Research - Dry) Lab Support (Research) Lab (Teaching)
- Lab Support (Teaching)



#### SECOND FLOOR

Classroom and Support Spaces Office (incl. Open Offices, Workstations) Office Support (incl. Copy, Break) Conference (incl. Conference, Meeting, Auditorium) Collaboration (incl. Informal Meeting)





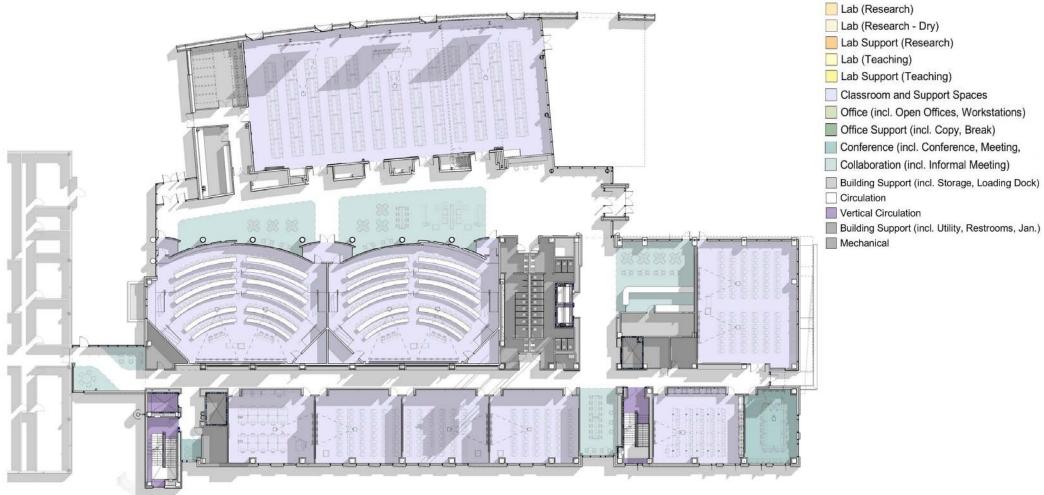
#### THIRD FLOOR

FOURTH FLOOR

Building Support (incl. Storage, Loading Dock) Circulation

- Vertical Circulation
- Building Support (incl. Utility, Restrooms, Jan.)
- Mechanical
- Existing PBB

## First Floor Plan



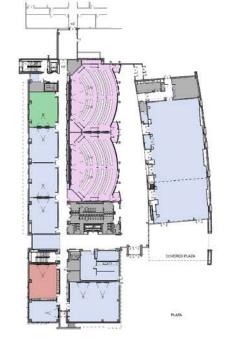
## **Typical Upper Floor Plan**



## Floor Plans by Department



**GROUND FLOOR** 



FIRST FLOOR

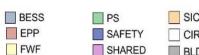


SECOND FLOOR





FOURTH FLOOR



SIC CIRCULATION BLDG SPT

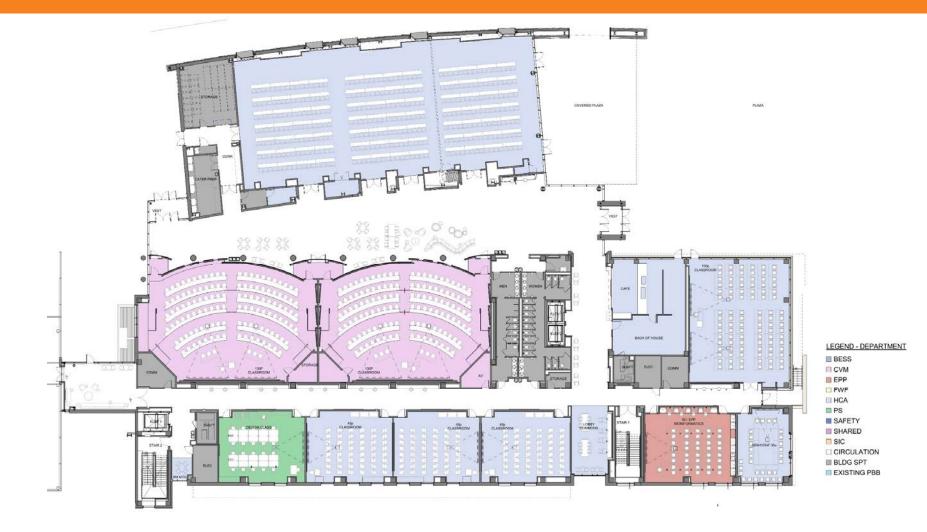
CVM HCA

THIRD FLOOR

# Ground Floor Department Plan



# First Floor Department Plan



# Second Floor Department Plan



C

# Third Floor Department Plan



C

## Fourth Floor Department Plan



# **Exterior Design Renderings**





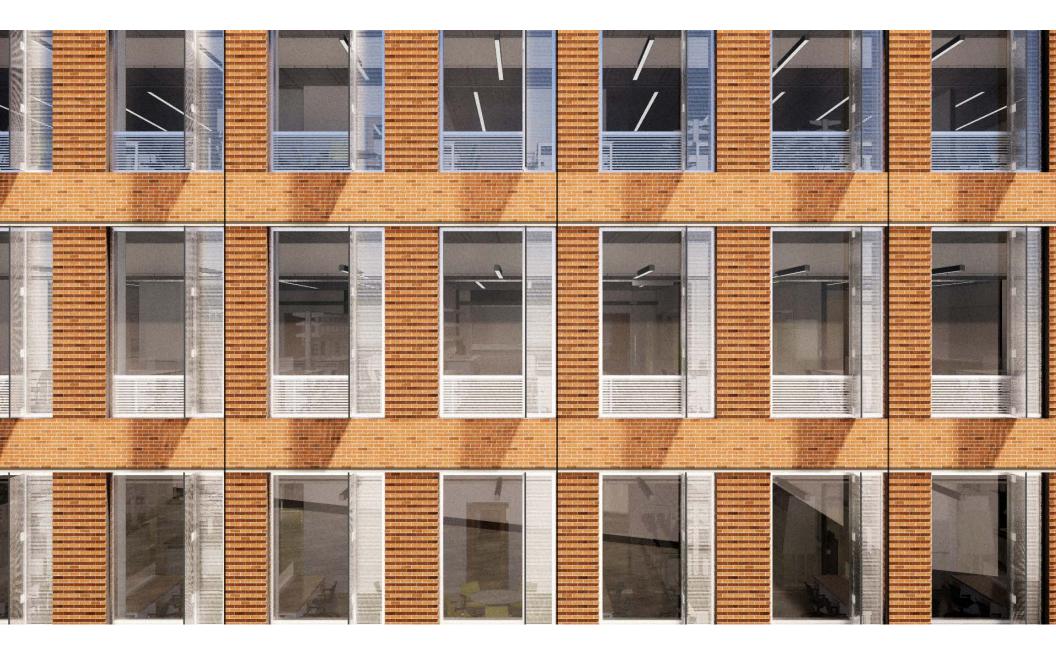








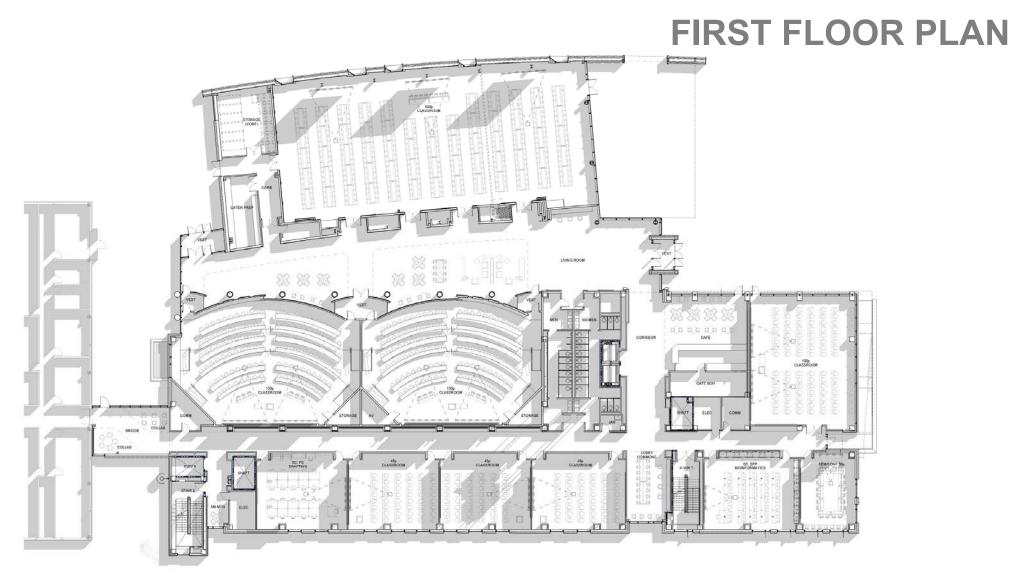




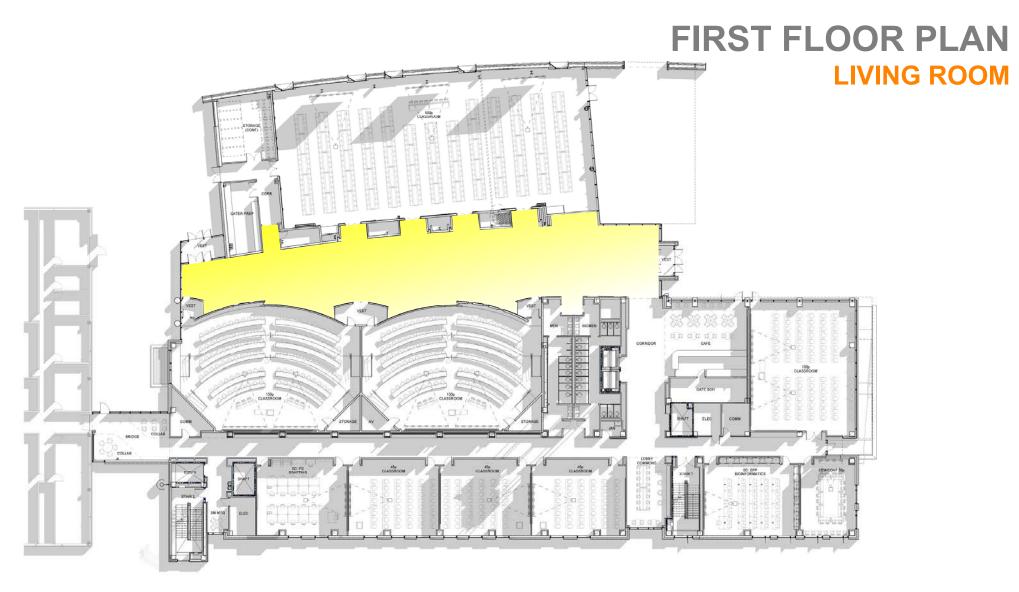


# Interior Design Renderings









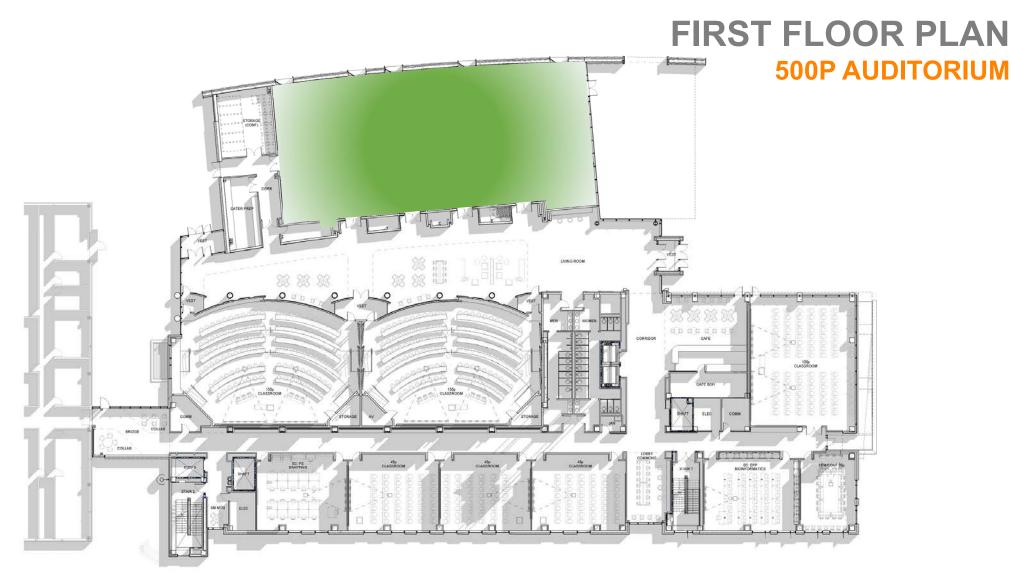


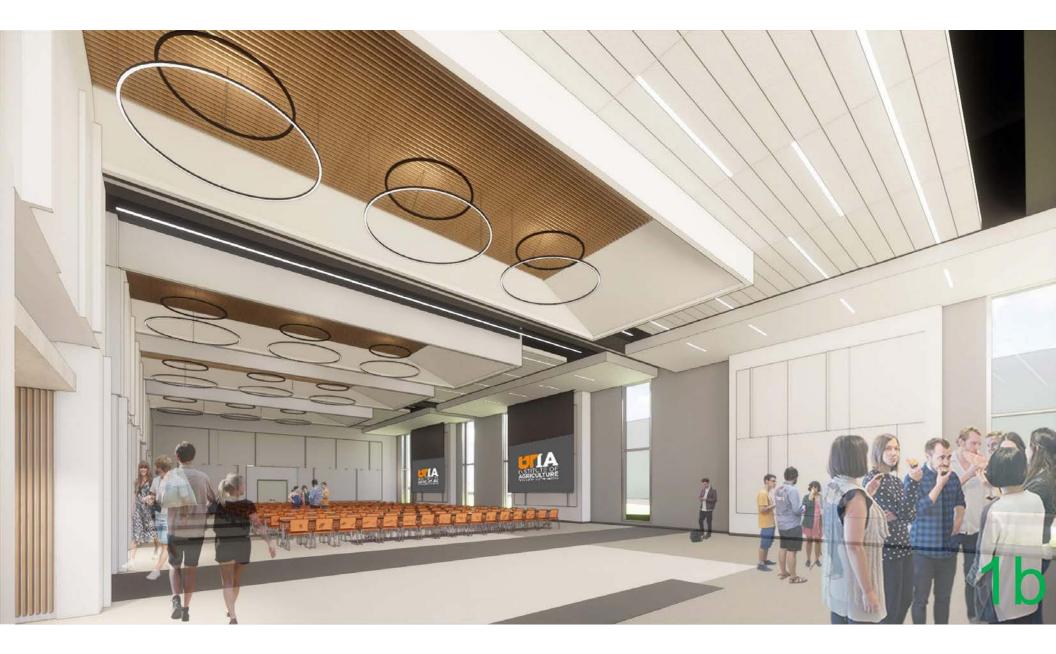




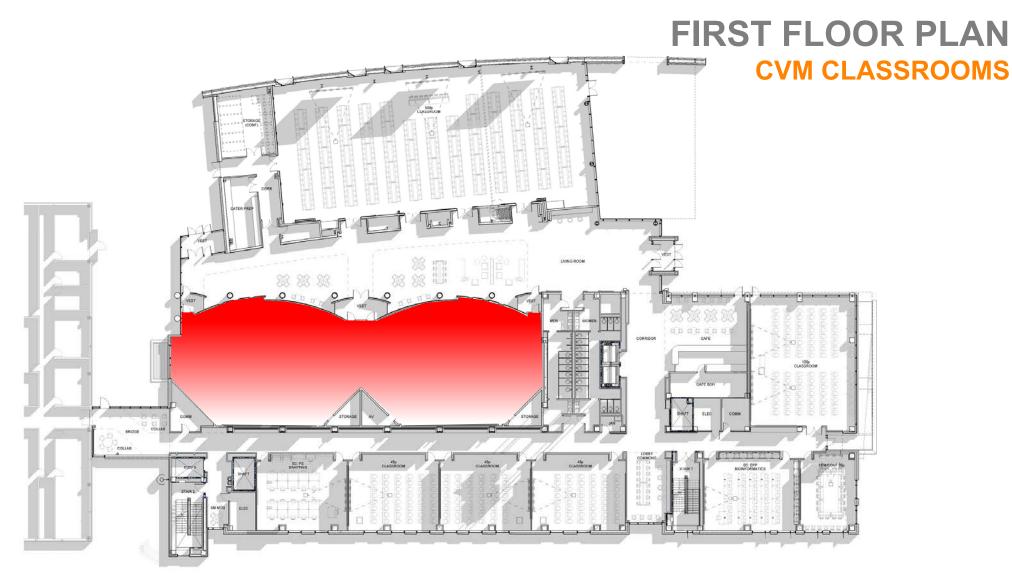




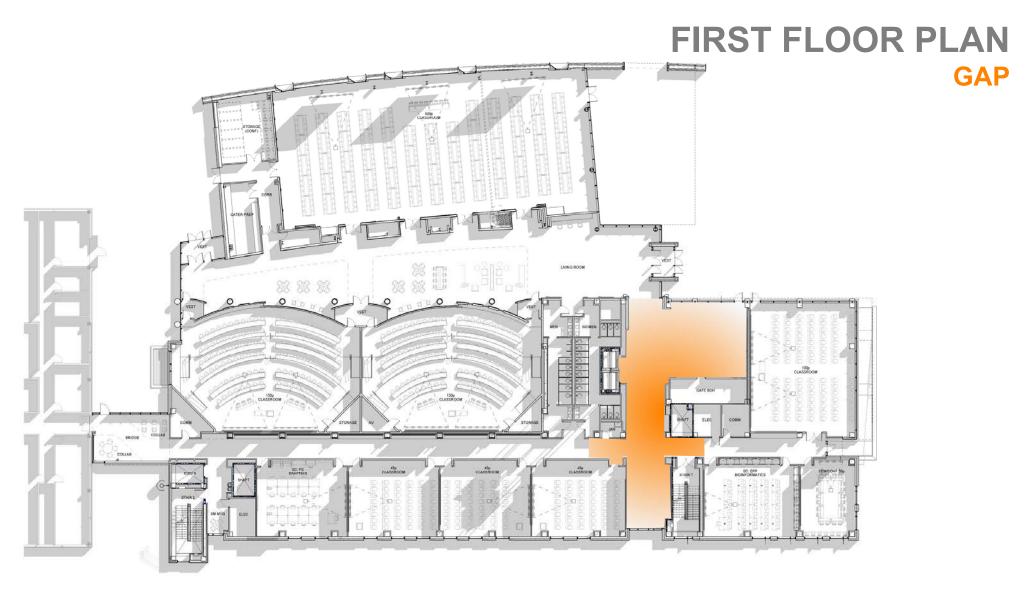


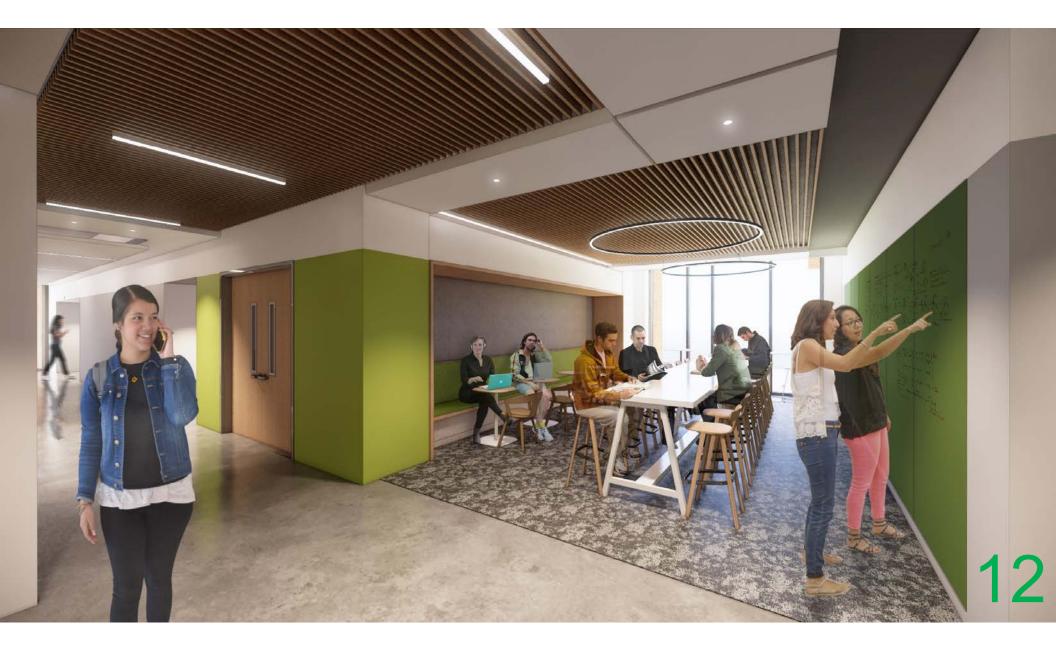


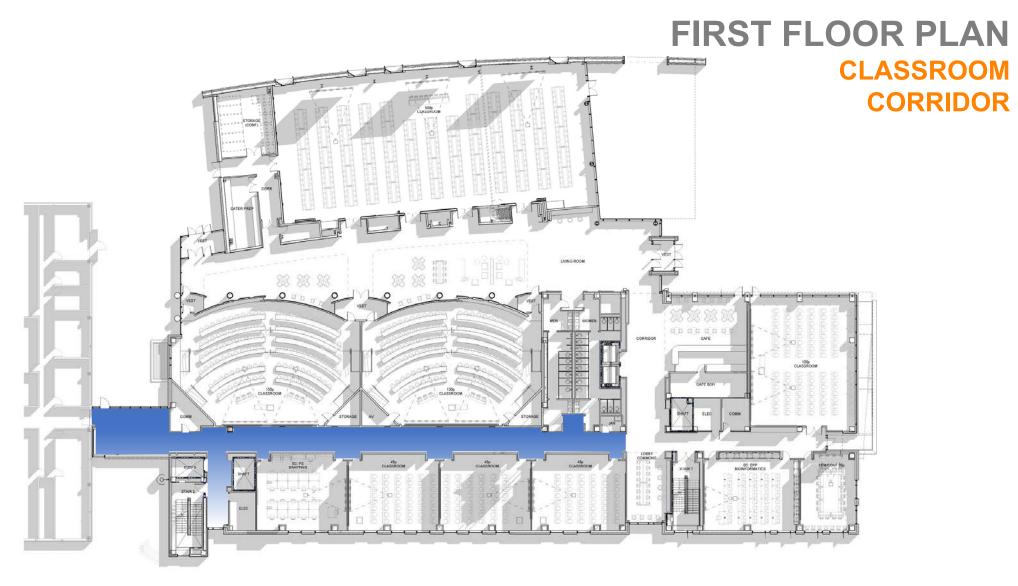




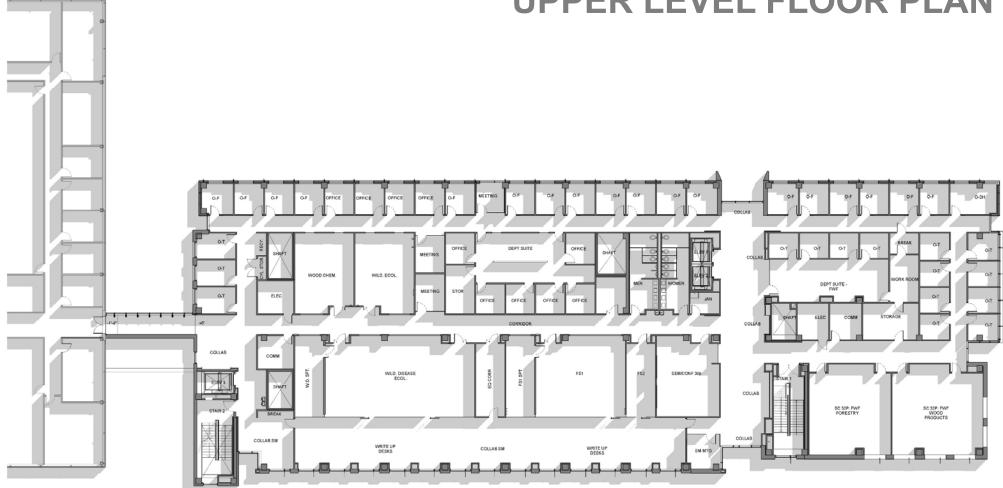




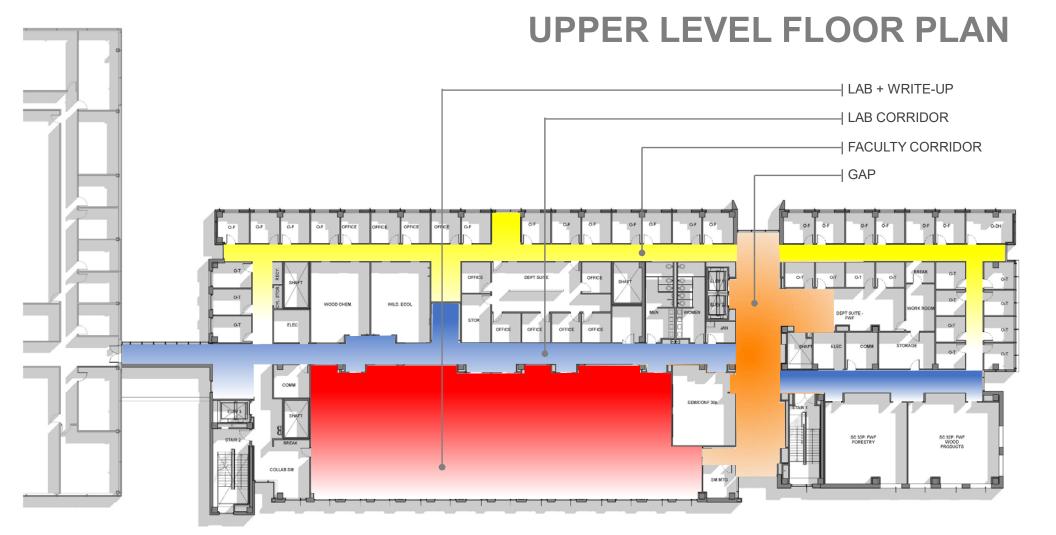


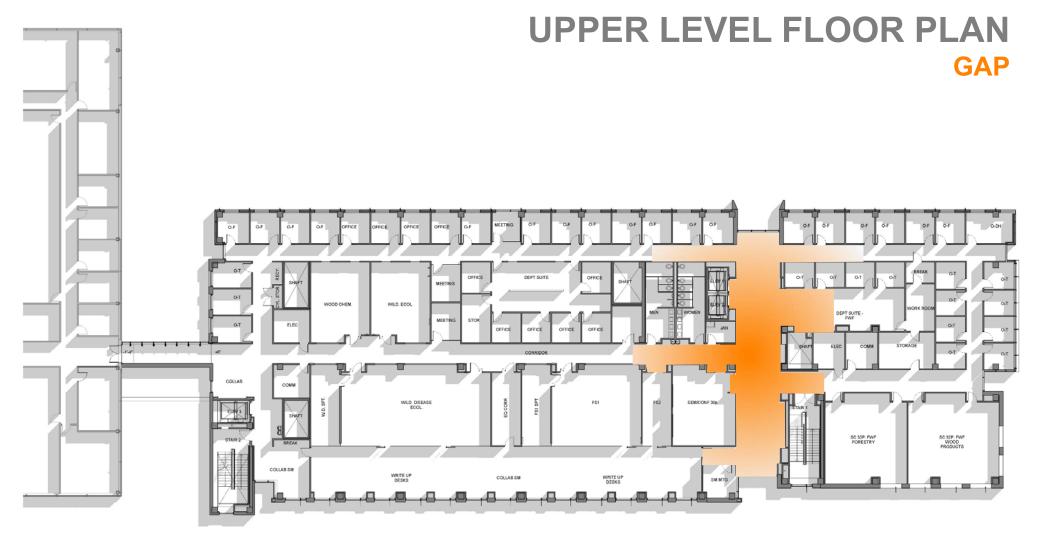




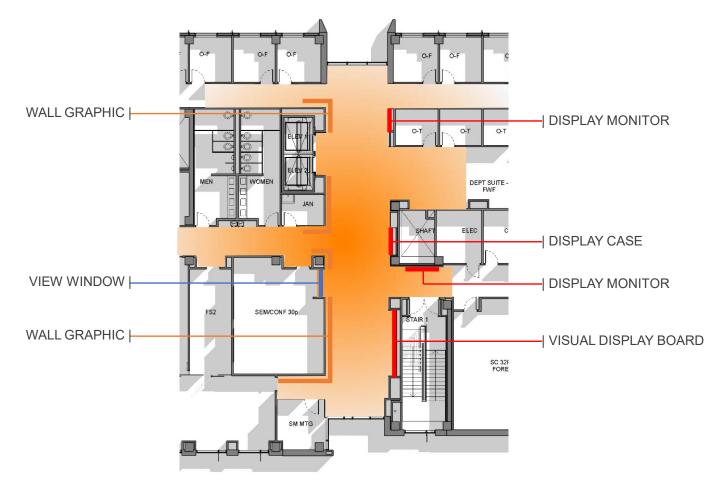


#### **UPPER LEVEL FLOOR PLAN**



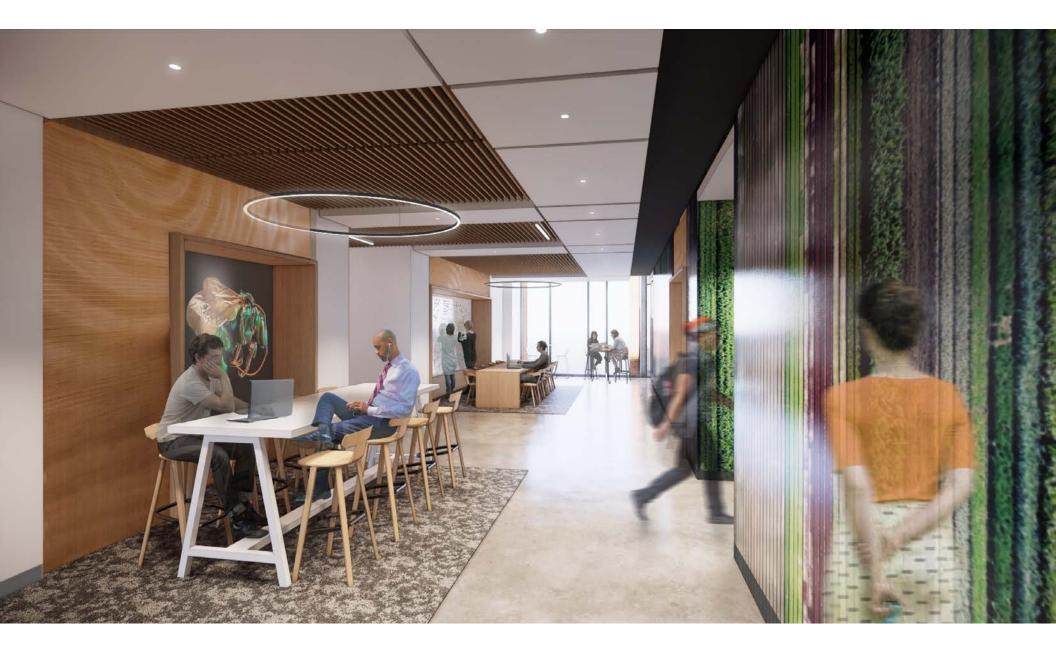


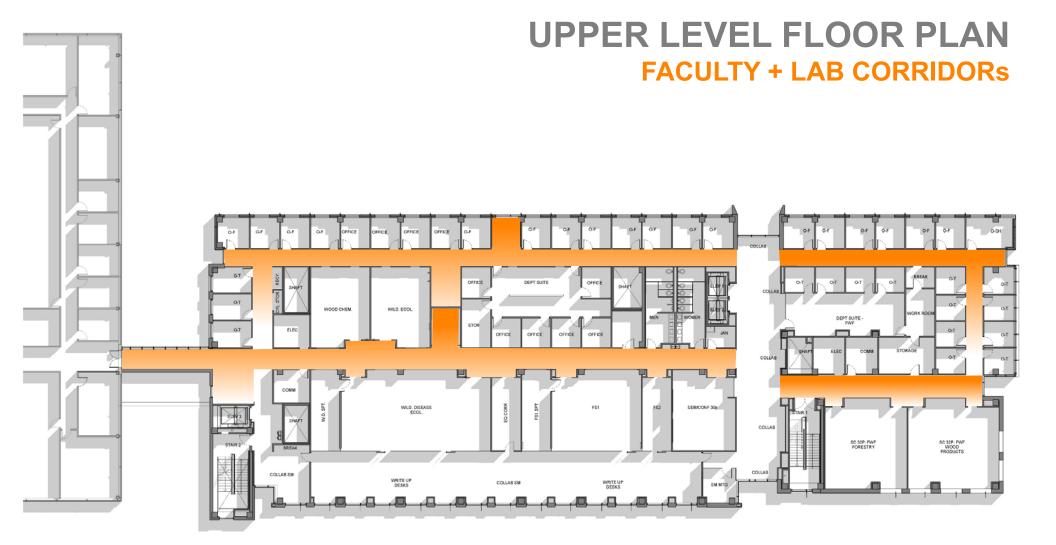
#### UPPER LEVEL FLOOR PLAN GAP – WALL DISPLAY

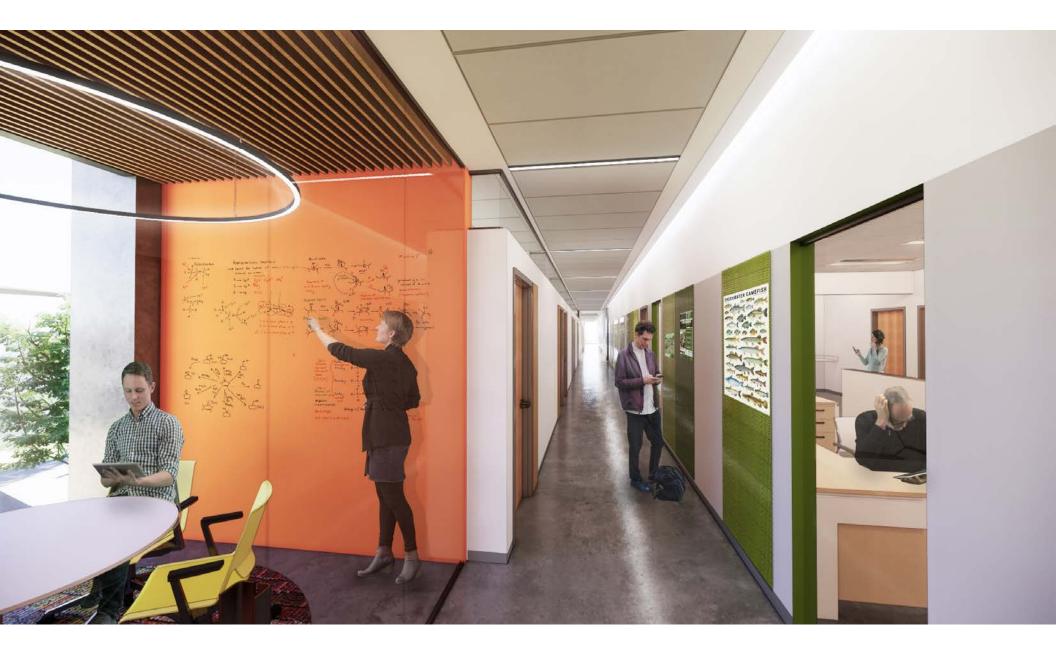






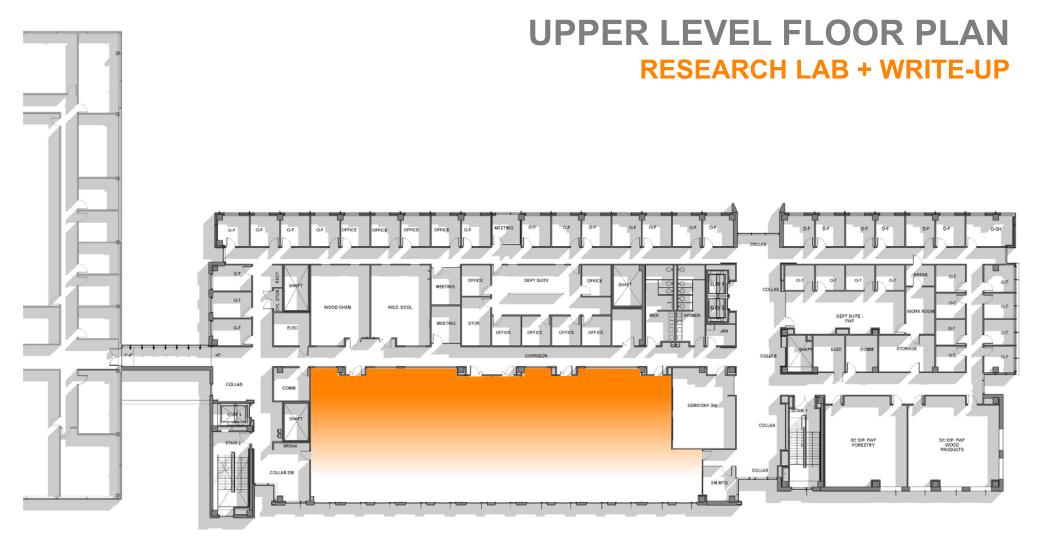


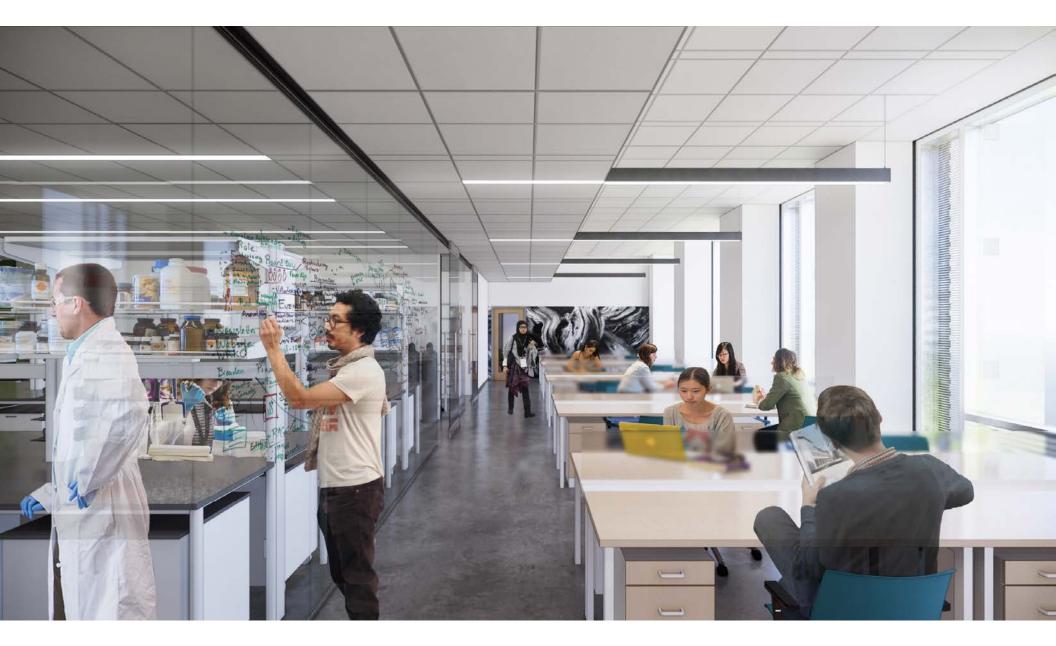


















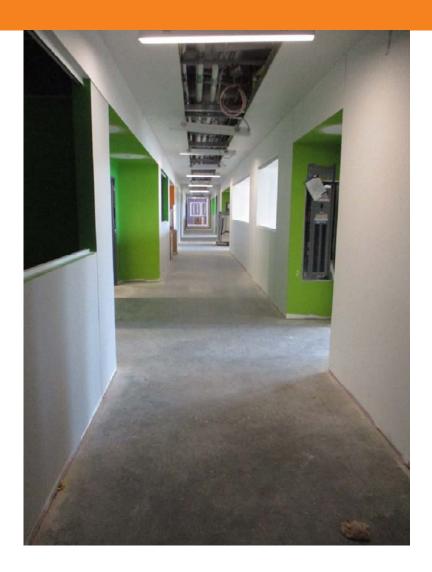
















#### **User Site Tours**

#### Upcoming User Group Tours

- Friday, October 27th @ 2:30pm
- Monday, October 30<sup>th</sup> @ 3:00pm

Meeting location at the project trailer

Proper PPE is required.

- Vest and hardhats will be provided
- No shorts, skirts or open-toed shoes

## Thank you!

# Discussion 私