
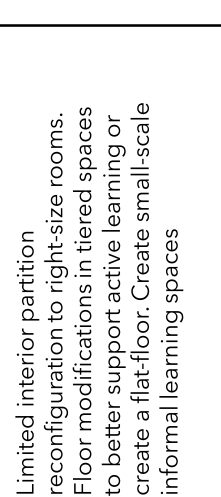

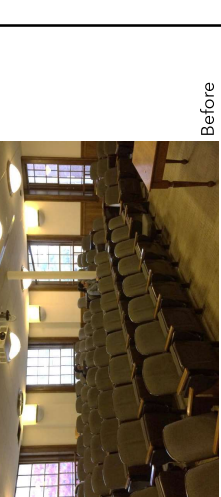

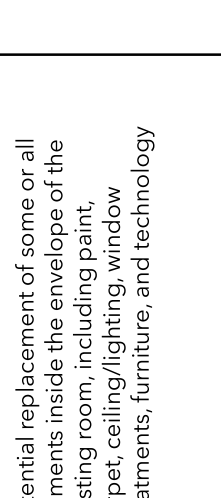

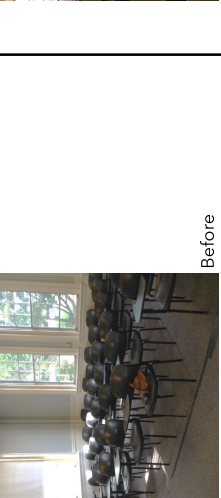


3

## Renovation Strategy



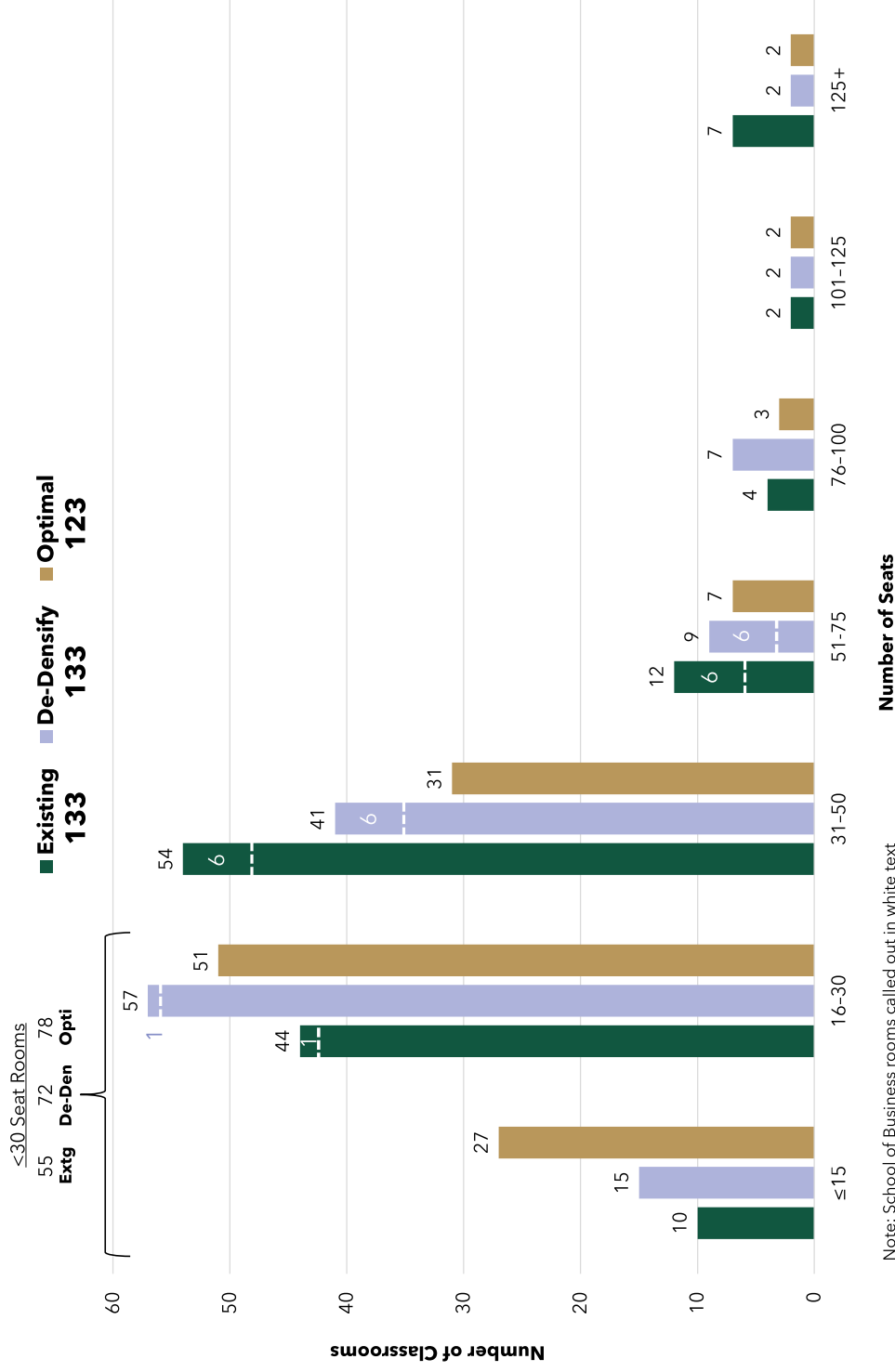
# Renovation Matrix Summary

<p><b>\$</b></p> <p><b>Maintain &amp; Support</b></p> <p>Plan for future sustainment levels of investment in room fit out and technology. Minor adjustments may be needed to improve consistency across room inventory features &amp; fit out</p>	<p><b>\$</b></p> <p><b>Minor Renovation</b></p> <p>Potential replacement of some or all elements inside the envelope of the existing room, including paint, carpet, ceiling/lighting, window treatments, furniture, and technology</p>	<p><b>\$\$</b></p> <p><b>Moderate Renovation</b></p> <p>Limited interior partition reconfiguration to right-size rooms. Floor modifications in tiered spaces to better support active learning or create a flat-floor. Create small-scale informal learning spaces</p>	<p><b>\$\$\$\$</b></p> <p><b>Major Renovation</b></p> <p>Gut renovation integrated with building-wide space program and infrastructure/deferred maintenance goals</p>
 <p>Education</p>	 <p>Education</p>	 <p>Before</p>	 <p>Univ. at Buffalo</p>
 <p>PBK</p>	 <p>PBK</p>	 <p>After</p>	 <p>Crosby Hall</p>

# Classroom Optimization | Proposed

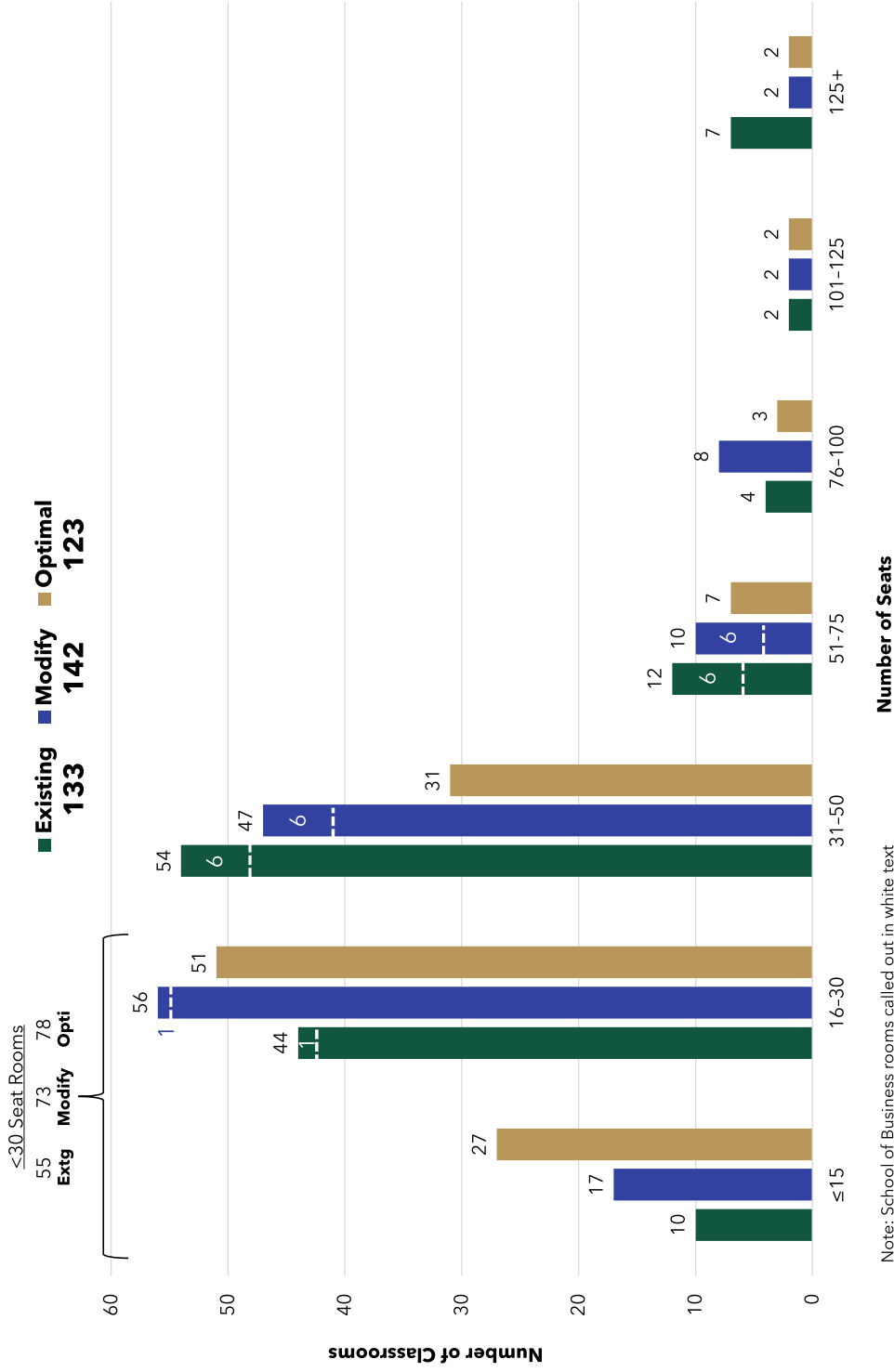
## De-Densification Only

- A preliminary strategy of classroom de-densification involves replacing furniture to achieve a **ratio of 25 assignable square feet (ASF) per seat** in classrooms and 30 ASF per seat in computer labs—excluding rooms in the A (“maintain & support”) renovation category.
- This strategy significantly **alleviates the surplus** of rooms on the larger end of the spectrum **and the deficit** of rooms on the smaller end.
- A remaining deficit of rooms in the ≤15 bracket is accommodated by a surplus in the 16-30 bracket.



# Classroom Optimization | Proposed Room Modifications

- A second stage of more extensive renovations entails strategic **combination or division of classrooms** to further optimize the classroom size ranges.



# Large Classrooms

## 76+ seats

### Maintain & Support



ISC 1221



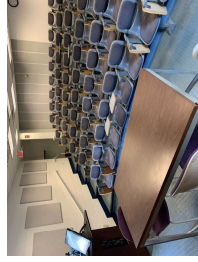
Tucker 127A

### Minor Renovation

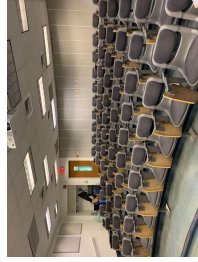


Andrews 101

### Investment TBD



Boswell 220

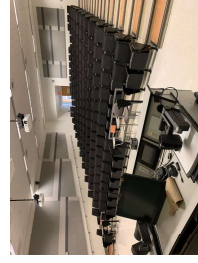


Boswell 20

### Moderate Renovation



ISC 1127



Small 110



Washington 201

### Major Renovation



Ewell 107



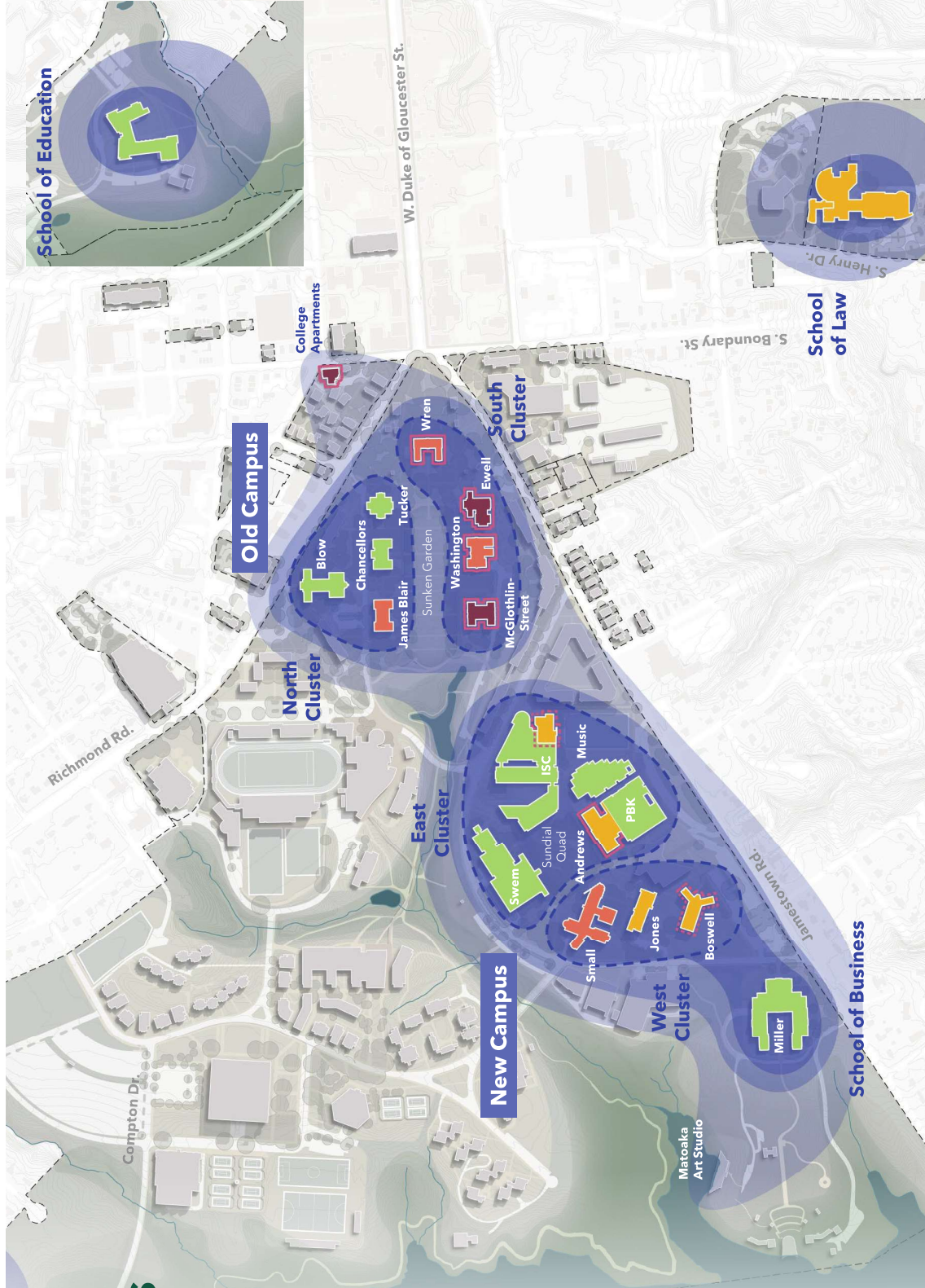
MSH 20

# Instructional Neighborhoods

- Academic buildings are concentrated in the neighborhoods of **Old Campus and New Campus**.
- We break these neighborhoods down into **clusters** to optimize the distribution of classroom sizes within a **five-minute walking radius**.

- Renovation Priority**
- A: Maintain & Support
  - B: Minor Renovation
  - C: Moderate Renovation
  - D: Major Renovation

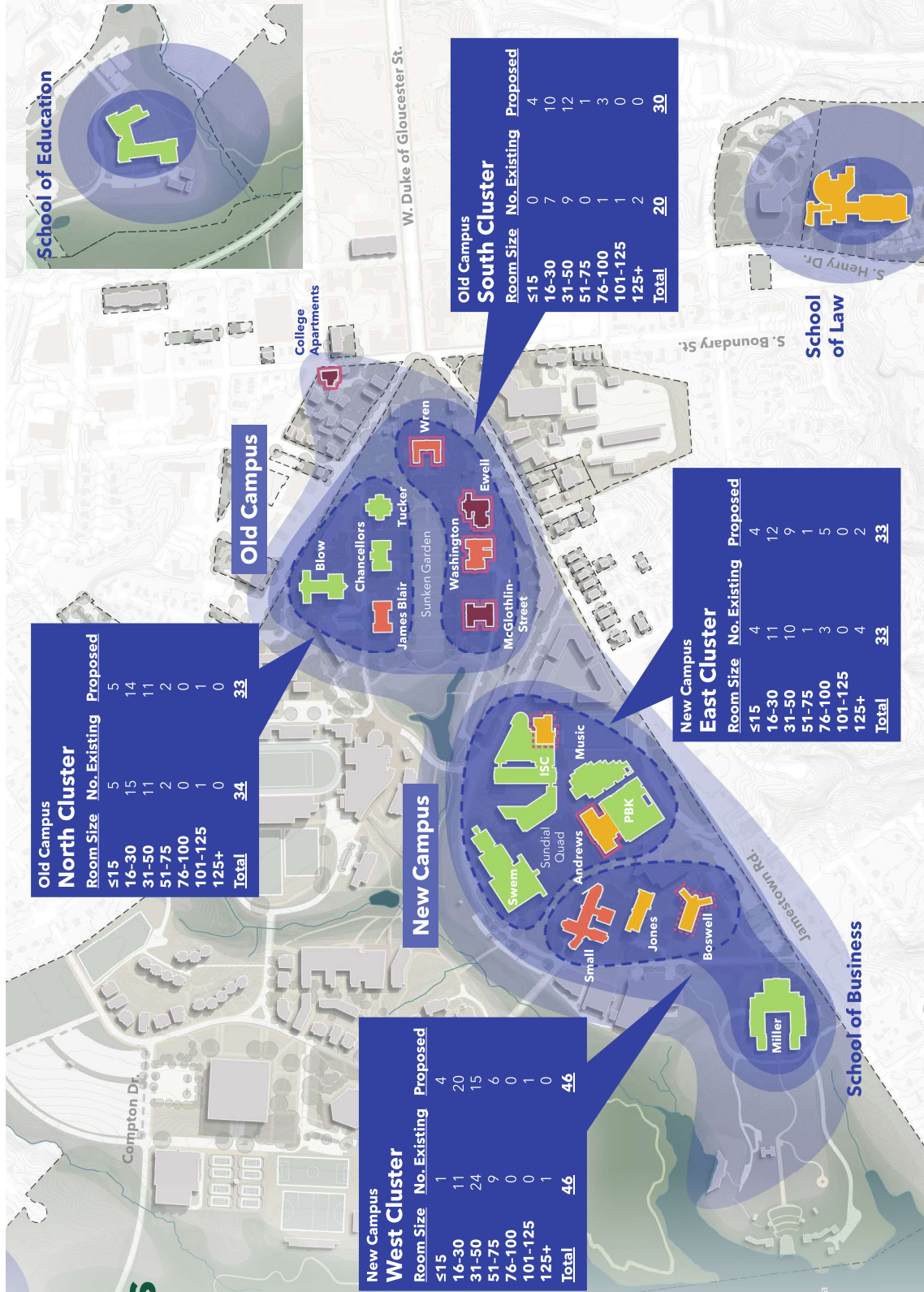
- Accessibility**
- Building-Wide Challenges
  - Classroom Challenges



# Instructional Neighborhoods

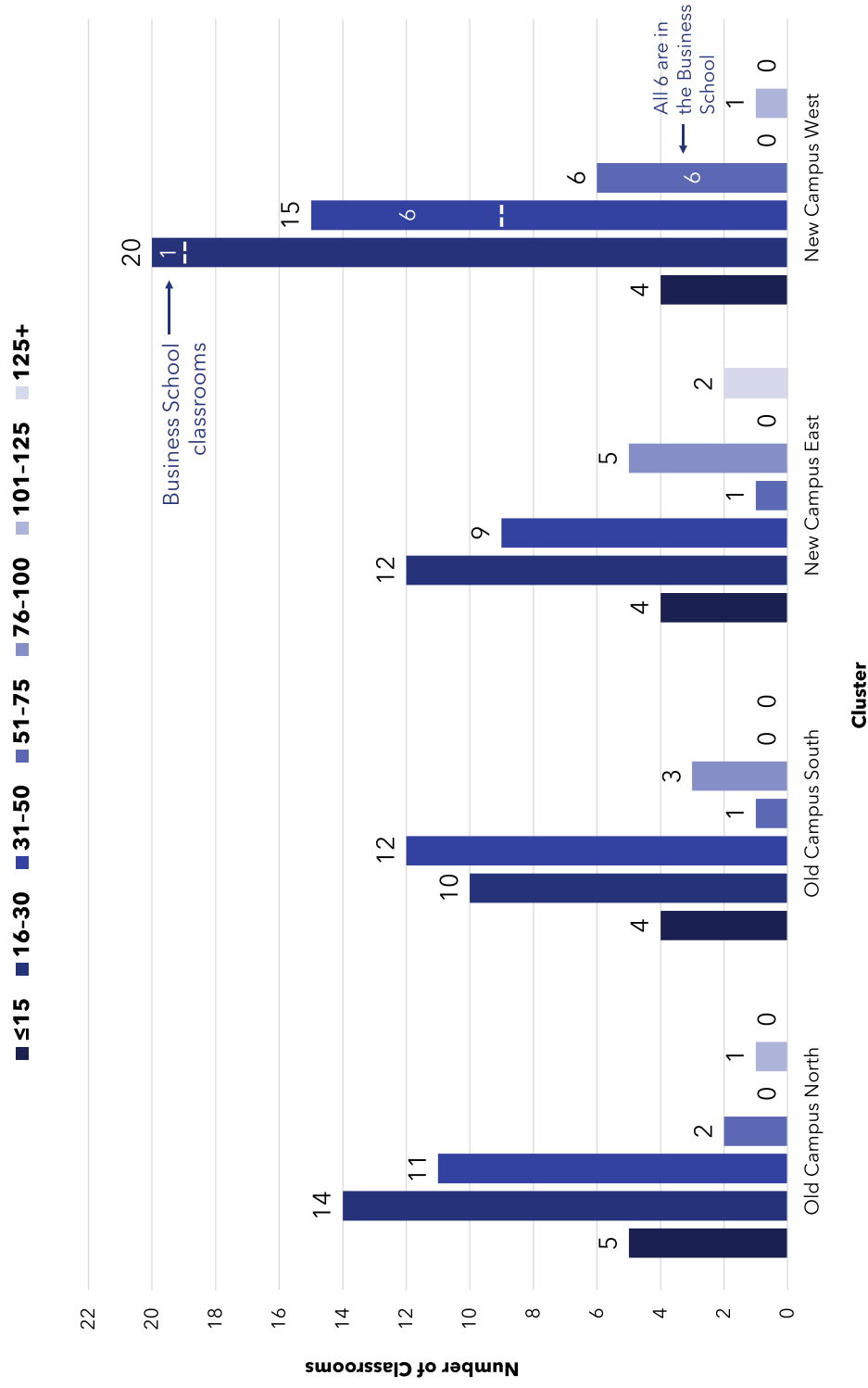
- Academic buildings are concentrated in the neighborhoods of **Old Campus and New Campus**.
- We break these neighborhoods down into **clusters** to optimize the distribution of classroom sizes within a **five-minute walking radius**.

- Renovation Priority**
- A: Maintain & Support
  - B: Minor Renovation
  - C: Moderate Renovation
  - D: Major Renovation
- Accessibility**
- Building-Wide Challenges
  - Classroom Challenges



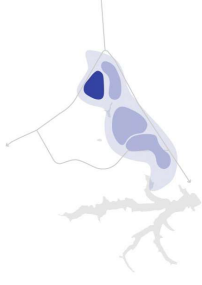
# Room Distribution Summary

- All clusters have a **healthy mix of classroom sizes**.
- **New Campus West contains the largest number of classrooms**, with Boswell containing 24 classrooms and the Business School (Miller) 13.
- Each cluster except Old Campus South contains at least one classroom with **100+ seats**.
- Both of the **125+-seat lecture halls are in New Campus East**, in the ISC, which is centrally located on the border between the Old and New campuses.





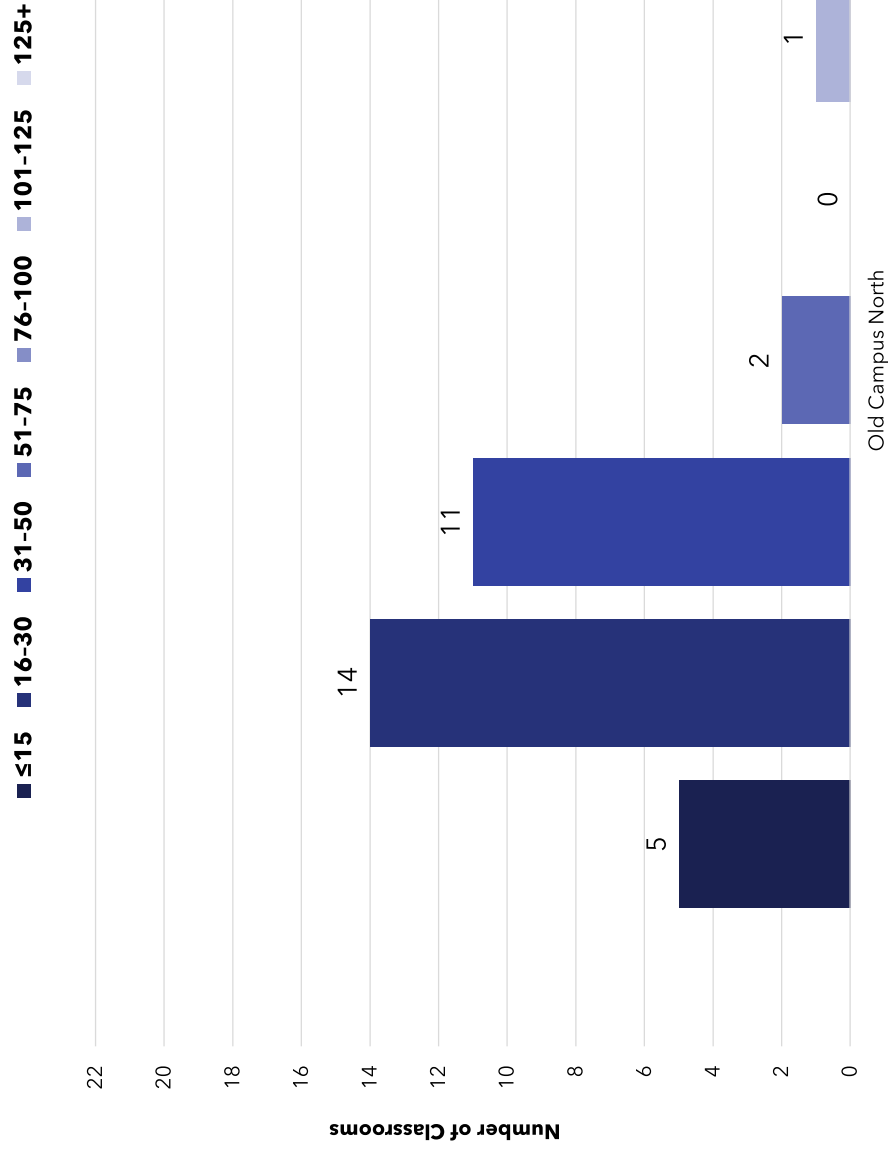
# Old Campus North



- **Blow Memorial, Chancellors, and Tucker** are recently renovated or in good condition (level **A**).
- **College Apartments and James Blair Hall** require significant renovations (level **D** and **C**, respectively).

## Recommended Informal Learning Space by Building

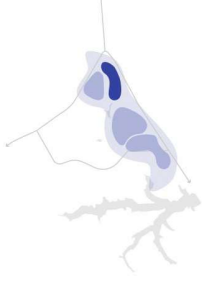
(3-5 SF per seat)	
<b>Blow Memorial</b>	600-1,000 SF
<b>Chancellors</b>	700-1,300 SF
<b>College Apts.</b>	75-125 SF
<b>James Blair</b>	700-1,200 SF
<b>Tucker</b>	900-1,600 SF



# Old Campus North | Renovation Matrix

No. of Seats	Cluster	Building	Floor	Space	Classroom or Lab	Current Capacity	Total Room ASF	Current ASF per Seat	Recommended Capacity (at 25 ASF/seat)	Renovation Priority	PROTOTYPES: Size Brackets					
											Seminar (≤15 seats)	Small 1 (16-30 seats)	Small 2 (31-50 seats)	Medium 1 (51-75 seats)	Medium 2 (76-100 seats)	Large 1 (101+ seats)
31-50	Old Campus North	Blow Memorial Hall	THIRD	334	Classroom	40	925	23	40	A		A				
31-50	Old Campus North	Blow Memorial Hall	THIRD	333	Classroom	48	1025	21	48	A		A				
51-75	Old Campus North	Blow Memorial Hall	THIRD	331	Classroom	56	1049	19	56	A		A				
51-75	Old Campus North	Blow Memorial Hall	THIRD	332	Classroom	56	1049	19	56	A		A				
16-30	Old Campus North	Chancellors Hall	FIRST	132	Classroom	19	406	21	19	A		A				
16-30	Old Campus North	Chancellors Hall	FIRST	121	Classroom	20	456	23	20	A		A				
16-30	Old Campus North	Chancellors Hall	FIRST	131	Classroom	20	455	23	20	A		A				
16-30	Old Campus North	Chancellors Hall	FIRST	113	Classroom	24	588	25	24	A		A				
16-30	Old Campus North	Chancellors Hall	FIRST	114	Classroom	24	588	25	24	A		A				
16-30	Old Campus North	Chancellors Hall	SECOND	217	Classroom	24	588	25	24	A		A				
16-30	Old Campus North	Chancellors Hall	SECOND	219	Classroom	24	588	25	24	A		A				
31-50	Old Campus North	Chancellors Hall	FIRST	123	Classroom	37	999	27	37	A		A				
31-50	Old Campus North	Chancellors Hall	FIRST	133	Classroom	37	980	26	37	A		A				
31-50	Old Campus North	Chancellors Hall	FIRST	134	Classroom	37	960	26	37	A		A				
≤15	Old Campus North	College Apartments	THIRD	311	Computer lab	15	311	21	10	D						
≤15	Old Campus North	College Apartments	SECOND	220	Classroom	15	345	23	14	D						
≤15	Old Campus North	James Blair Hall	SECOND	215	Classroom	13	210	16	8	C						
≤15	Old Campus North	James Blair Hall	SECOND	228	Classroom	15	282	19	11	C						
≤15	Old Campus North	James Blair Hall	SECOND	213	Classroom	15	305	20	12	C						
31-50	Old Campus North	James Blair Hall	SECOND	223	Classroom	46	961	21	38	C						
31-50	Old Campus North	James Blair Hall	SECOND	221	Classroom	35	521	15	39	C						
31-50	Old Campus North	James Blair Hall	SECOND	201	Classroom	42	706	17	40	C						
31-50	Old Campus North	James Blair Hall	SECOND	206	Classroom	-	706	-	40	C						
31-50	Old Campus North	James Blair Hall	SECOND	229	Classroom	50	1064	21	43	C						
101-125	Old Campus North	Tucker Hall	FIRST	127A	Classroom	124	1908	15	124	A					A	
16-30	Old Campus North	Tucker Hall	FIRST	123	Classroom	16	460	29	16	A					A	
16-30	Old Campus North	Tucker Hall	FIRST	110	Classroom	18	355	20	18	A					A	
16-30	Old Campus North	Tucker Hall	THIRD	310	Classroom	18	491	27	18	A					A	
16-30	Old Campus North	Tucker Hall	THIRD	325	Classroom	18	491	27	18	A					A	
16-30	Old Campus North	Tucker Hall	SECOND	220	Classroom	30	623	21	30	A					A	
16-30	Old Campus North	Tucker Hall	SECOND	221	Classroom	30	587	20	30	A					A	
31-50	Old Campus North	Tucker Hall	FIRST	111	Classroom	32	652	20	32	A					A	
16-30	Old Campus North	Tucker Hall	SECOND	222	Classroom	28	639	23	26	B						

# Old Campus South

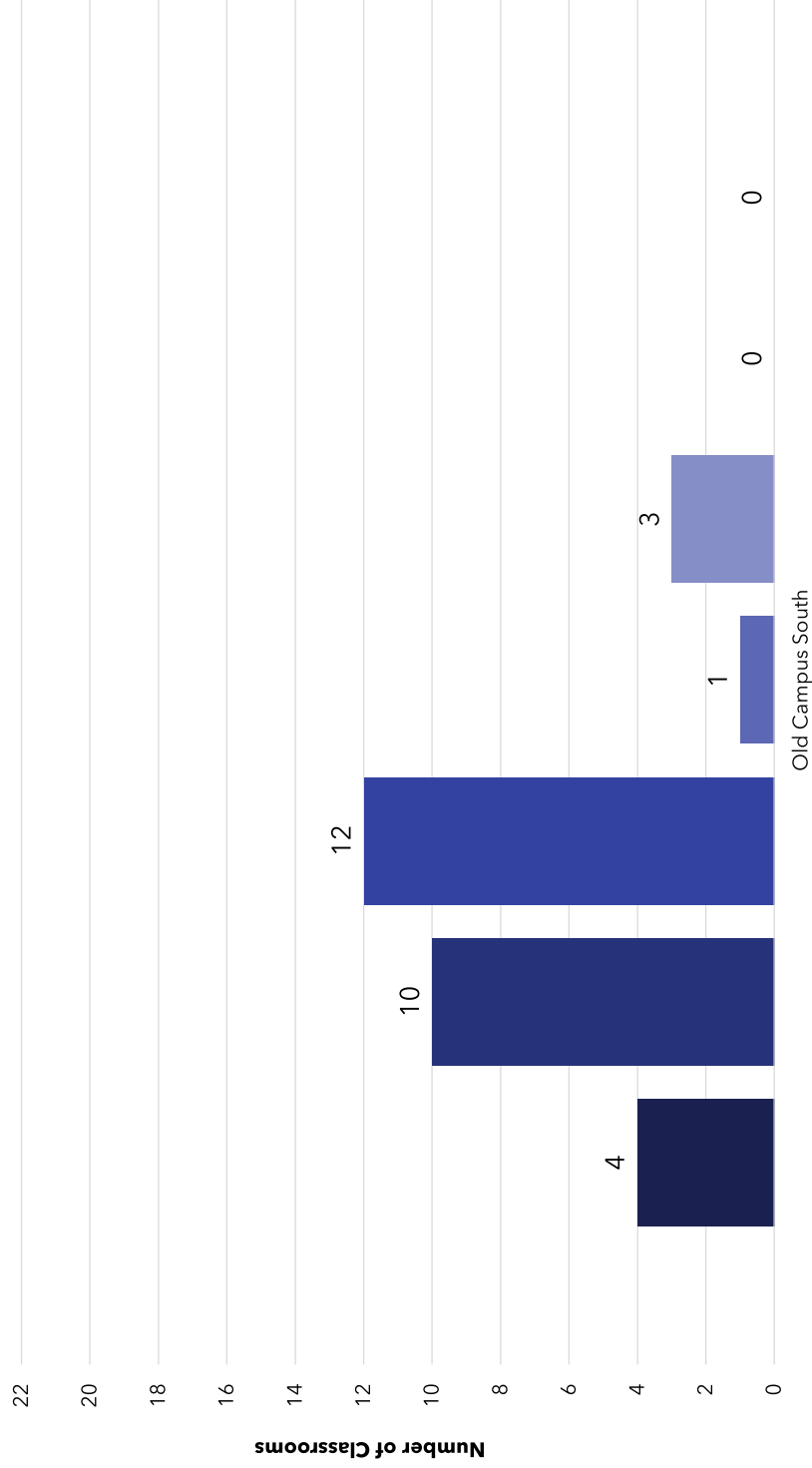


■ ≤15 ■ 16-30 ■ 31-50 ■ 51-75 ■ 76-100 ■ 101-125 ■ 125+

- **Ewell and McGlothlin-Street** are candidates for major renovation (level **D**).
- **Washington and Wren** require moderate renovation (level **C**).

**Recommended Informal Learning Space by Building**  
(3-5 SF per seat)

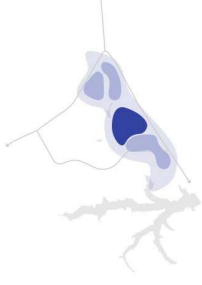
<b>Ewell</b>	700-1,300 SF
<b>McGlothlin</b>	900-1,600 SF
<b>Washington</b>	1,100-1,900 SF
<b>Wren</b>	300-700 SF



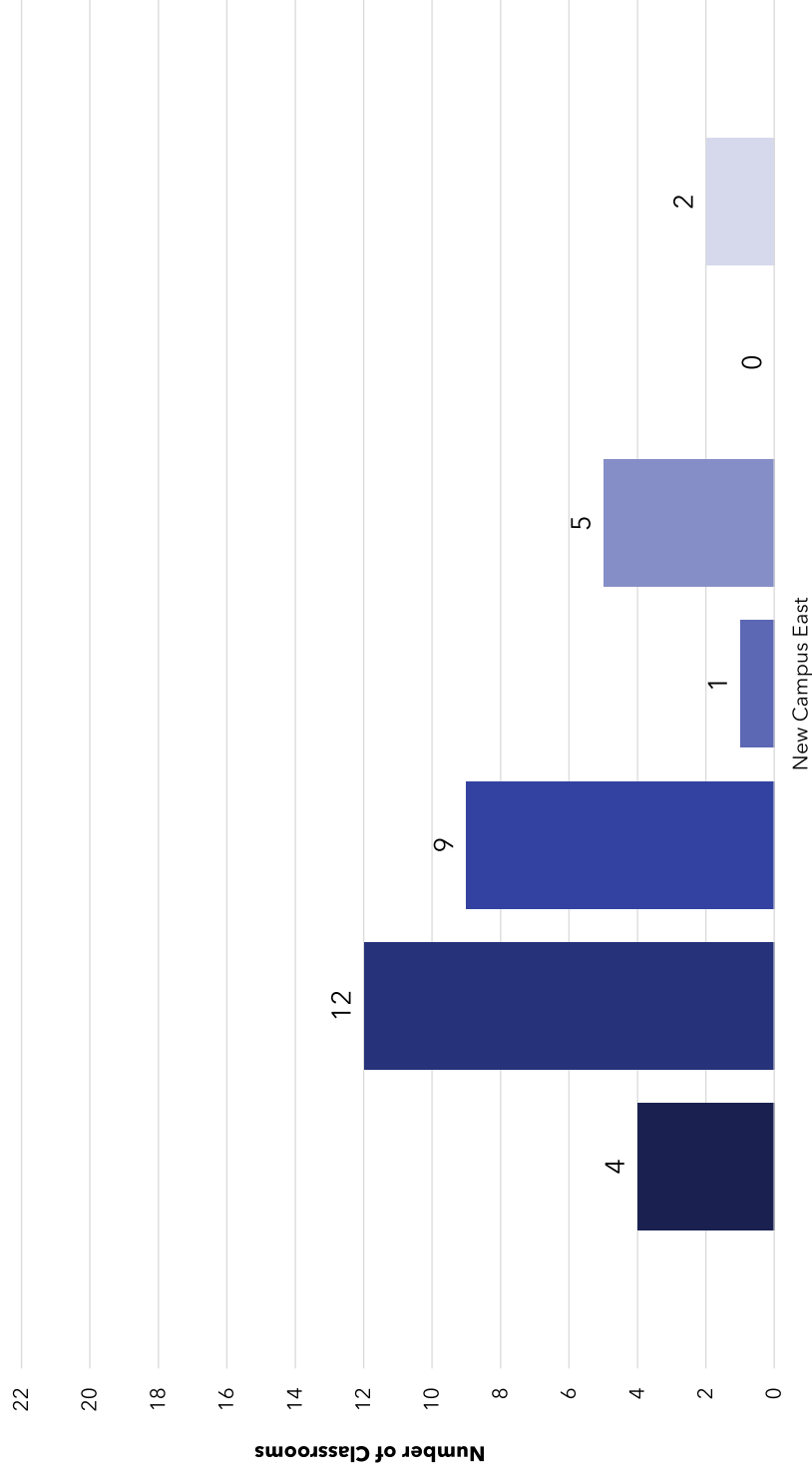
# Old Campus South | Renovation Matrix

No. of Seats	Cluster	Building	Floor	Space	Classroom or Lab	Current Capacity	Total Room ASF	Current ASF per Seat	Recommended Capacity (at 25 ASF/seat)	Renovation Priority	PROTOTYPES: Size Brackets					
											Seminar (≤15 seats)	Small 1 (16-30 seats)	Small 2 (31-50 seats)	Medium 1 (51-75 seats)	Medium 2 (76-100 seats)	Large 1 (101+ seats)
16-30	Old Campus South	Ewell Hall	FIRST	154	Classroom	32	588	18	24	D	D					
16-30	Old Campus South	Ewell Hall	FIRST	151	Classroom	90	1220	14	29	D	D					
31-50	Old Campus South	Ewell Hall	FIRST	153	Classroom	-	-		35	D	D					
51-75	Old Campus South	Ewell Hall	FIRST	107	Classroom	150	1223	8	75	D	D					
16-30	Old Campus South	Ewell Hall	FIRST	130	Classroom	-	506		20	D	D					
31-50	Old Campus South	Ewell Hall	FIRST	125	Classroom	-	845		34	D	D					
31-50	Old Campus South	Ewell Hall	FIRST	134	Classroom	-	845		34	D	D					
≤15	Old Campus South	McClothlin Street Hall	BSMT/GRND	005	Classroom	-	418		14	D	D					
≤15	Old Campus South	McClothlin Street Hall	BSMT/GRND	013	Classroom	-	378		14	D	D					
16-30	Old Campus South	McClothlin Street Hall	FIRST	121	Classroom	-	716		29	D	D					
31-50	Old Campus South	McClothlin Street Hall	BSMT/GRND	001	Classroom	-	928		37	D	D					
31-50	Old Campus South	McClothlin Street Hall	FIRST	136	Classroom	-	951		38	D	D					
31-50	Old Campus South	McClothlin Street Hall	FIRST	128	Classroom	-	925		37	D	D					
31-50	Old Campus South	McClothlin Street Hall	FIRST	107	Classroom	-	900		36	D	D					
31-50	Old Campus South	McClothlin Street Hall	FIRST	101	Classroom	-	908		36	D	D					
76-100	Old Campus South	McClothlin Street Hall	BSMT/GRND	20	Classroom	110	2051	19	82	D	D			D		
≤15	Old Campus South	Washington Hall	THIRD	312	Classroom	18	290	16	12	C	C					
≤15	Old Campus South	Washington Hall	THIRD	310	Classroom	23	353	15	14	C	C					
16-30	Old Campus South	Washington Hall	SECOND	219	Classroom	24	408	17	16	C	C					
16-30	Old Campus South	Washington Hall	THIRD	315A	Classroom	1	232		24	C	C					
16-30	Old Campus South	Washington Hall	THIRD	308	Classroom	32	696	22	28	C	C					
16-30	Old Campus South	Washington Hall	THIRD	305	Classroom	35	710	20	28	C	C					
31-50	Old Campus South	Washington Hall	THIRD	306	Classroom	24	424	18	42	C	C					
31-50	Old Campus South	Washington Hall	THIRD	317	Classroom	25	788	32	42	C	C					
76-100	Old Campus South	Washington Hall	SECOND	201	Classroom	166	2029	12	81	C	C			C		
76-100	Old Campus South	Washington Hall	THIRD	301	Classroom	39	917	24	81	C	C			C		
16-30	Old Campus South	Wren Building	SECOND	204	Classroom	17	518	30	21	C	C					
16-30	Old Campus South	Wren Building	SECOND	200	Classroom	36	540	15	22	C	C					
31-50	Old Campus South	Wren Building	THIRD	301	Classroom	48	764	16	31	C	C					
31-50	Old Campus South	Wren Building	BSMT/GRND	2	Classroom	40	1054	26	42	C	C					

# New Campus East



■ ≤15 ■ 16-30 ■ 31-50 ■ 51-75 ■ 76-100 ■ 101-125 ■ 125+



- The ISC, Phi Beta Kappa Memorial Hall, the Music Arts Center, and Swem Library are in good condition (level **A**).
- Andrews requires minor renovation (level **B**) and ISC 1111 and 1123 moderate renovation (level **C**).

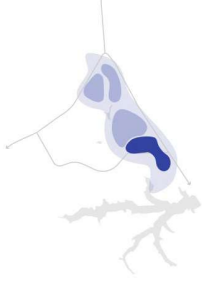
## Recommended Informal Learning Space by Building

Building	Recommended Informal Learning Space (3-5 SF per seat)
Andrews	400-700 SF
ISC	2,000-3,400 SF
ISC IV	1,600-2,700 SF
Music	200-400 SF
PBK	300-500 SF
Swem	300-600 SF

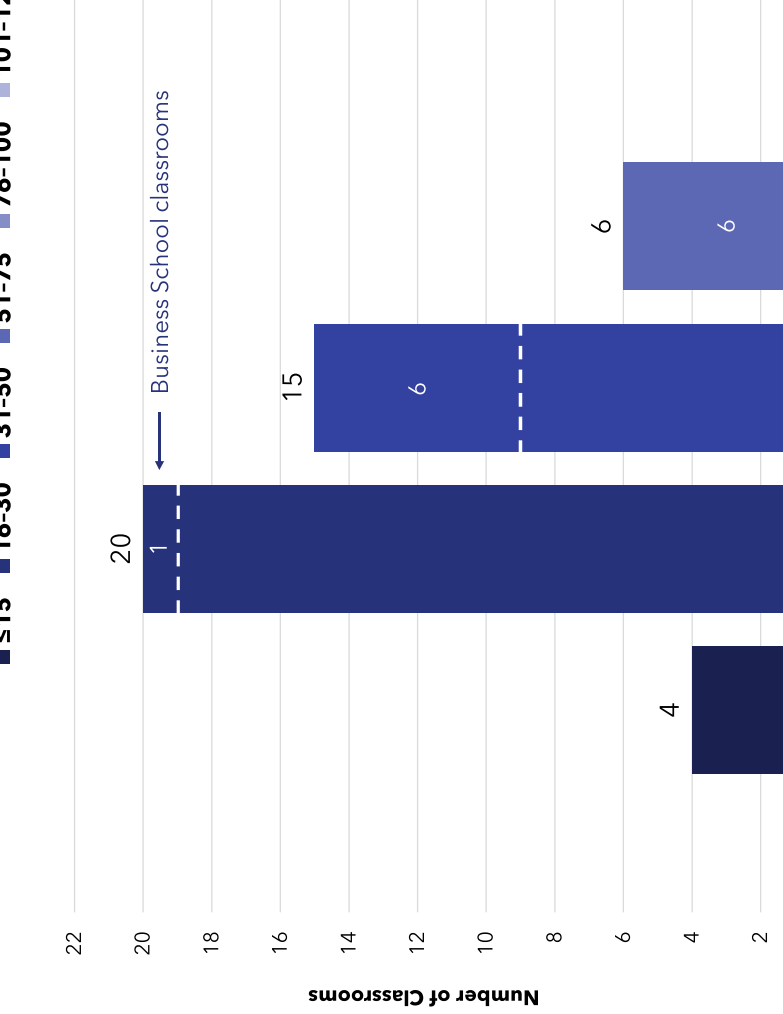
# New Campus East | Renovation Matrix

No. of Seats	Cluster	Building	Floor	Space	Classroom or Lab	Current Capacity	Total Room ASF	Current ASF per Seat	Recommended Capacity (at 25 ASF/seat)	Renovation Priority	PROTOTYPES: Size Brackets					
											Seminar (≤15 seats)	Small 1 (16-30 seats)	Small 2 (31-50 seats)	Medium 1 (51-75 seats)	Medium 2 (76-100 seats)	Large 1 (101+ seats)
16-30	New Campus East	Andrews Hall	SECOND	202	Classroom	18	446	25	18	B	B					
16-30	New Campus East	Andrews Hall	SECOND	201	Classroom	40	701	18	28	B	B					
76-100	New Campus East	Andrews Hall	FIRST	101	Classroom	200	2438	12	98	B		B				
≤15	New Campus East	ISC	SECOND	2291	Classroom	15	342	23	15	A						
≤15	New Campus East	ISC	THIRD	3291	Classroom	15	342	23	15	A						
125+	New Campus East	ISC	FIRST	1221	Classroom	294	4259	14	294	A						A
16-30	New Campus East	ISC	BSMT/GRND	248	Classroom	20	558	28	20	A						
16-30	New Campus East	ISC	THIRD	3020	Classroom	20	707	35	20	A						
16-30	New Campus East	ISC	THIRD	3280	Classroom	24	570	24	24	A						
16-30	New Campus East	ISC	THIRD	3221	Classroom	25	645	26	25	A						
16-30	New Campus East	ISC	THIRD	3248	Computer lab	25	560	22	25	A						
31-50	New Campus East	ISC	FIRST	1061	Classroom	40	877	22	40	A						
31-50	New Campus East	ISC	FIRST	1280	Classroom	48	1146	24	48	A						
31-50	New Campus East	ISC	SECOND	2280	Classroom	48	1146	24	48	A						
16-30	New Campus East	ISC	FIRST	1111	Computer lab	30	800	27	27	C						
76-100	New Campus East	ISC	FIRST	1127	Classroom	180	2133	12	85	C						
125+	New Campus East	ISC IV	GROUND	0350	Classroom	157	2020	13	157	A						A
16-30	New Campus East	ISC IV	THIRD	3347	Classroom	18	458	25	18	A						
16-30	New Campus East	ISC IV	FIRST	1376	Classroom	24	549	23	24	A						
31-50	New Campus East	ISC IV	THIRD	3348	Classroom	48	751	16	48	A						
31-50	New Campus East	ISC IV	THIRD	3349	Classroom	48	758	16	48	A						
76-100	New Campus East	ISC IV	FIRST	1353	Classroom	80	1243	16	80	A						
76-100	New Campus East	ISC IV	FIRST	1360	Classroom	80	1356	17	80	A						
76-100	New Campus East	ISC IV	SECOND	2363	Classroom	90	2127	24	90	A						
31-50	New Campus East	Music Arts Center	SECOND	228	Classroom	36	969	27	36	A						
31-50	New Campus East	Music Arts Center	SECOND	217	Classroom	42	927	22	42	A						
≤15	New Campus East	Phi Beta Kappa Hall	FIRST	113	Classroom	15	488	33	15	A						
≤15	New Campus East	Phi Beta Kappa Hall	SECOND	255	Classroom	15	369	25	15	A						
31-50	New Campus East	Phi Beta Kappa Hall	FIRST	115	Classroom	36	766	21	36	A						
31-50	New Campus East	Phi Beta Kappa Hall	FIRST	162	Classroom	36	822	23	36	A						
16-30	New Campus East	Swem Library	GROUND	G09	Classroom	20	447	22	20	A						
16-30	New Campus East	Swem Library	GROUND	G12	Classroom	30	545	18	30	A						
51-75	New Campus East	Swem Library	GROUND	G15	Classroom	60	590	10	60	A						

# New Campus West



■ ≤15 ■ 16-30 ■ 31-50 ■ 51-75 ■ 76-100 ■ 101-125 ■ 125+



- **Miller** (Business School) is in good condition (level **A**).
- **Boswell and Jones** require minor renovation (level **B**) in the interim period before they are demolished.
- **Small** requires moderate renovation (level **C**).

## Recommended Informal Learning Space by Building (3-5 SF per seat)

<b>Boswell</b>	1,700-2,800 SF
<b>Jones</b>	300-700 SF
<b>Miller</b>	2,000-3,300 SF
<b>Small</b>	700-1,100 SF

# New Campus West | Renovation Matrix

No. of Seats	Cluster	Building	Floor	Space	Classroom or Lab	Current Capacity	Total Room ASF	Current ASF per Seat	Recommended Capacity (at 25 ASF/seat)	Renovation Priority	PROTOTYPES: Size Brackets					
											Seminar (≤15 seats)	Small 1 (16-30 seats)	Small 2 (31-50 seats)	Medium 1 (51-75 seats)	Medium 2 (76-100 seats)	Large 1 (101+ seats)
≤15	New Campus West	Boswell Hall	SECOND	240	Computer lab	14	401	29	13	B	B					
≤15	New Campus West	Boswell Hall	BSMT/GRND	2	Classroom	16	356	22	14	B	B					
≤15	New Campus West	Boswell Hall	BSMT/GRND	3	Classroom	16	375	23	15	B	B					
16-30	New Campus West	Boswell Hall	SECOND	239	Classroom	18	393	22	16	B	B					
16-30	New Campus West	Boswell Hall	SECOND	238	Classroom	18	403	22	16	B	B					
16-30	New Campus West	Boswell Hall	BSMT/GRND	4	Classroom	16	416	26	17	B	B					
16-30	New Campus West	Boswell Hall	SECOND	244	Computer lab	24	604	25	20	B	B					
16-30	New Campus West	Boswell Hall	THIRD	314	Classroom	20	541	27	22	B	B					
16-30	New Campus West	Boswell Hall	FIRST	102	Classroom	40	550	14	22	B	B					
16-30	New Campus West	Boswell Hall	SECOND	202	Classroom	41	550	13	22	B	B					
16-30	New Campus West	Boswell Hall	THIRD	302	Classroom	34	550	16	22	B	B					
16-30	New Campus West	Boswell Hall	BSMT/GRND	1	Classroom	40	604	15	24	B	B					
16-30	New Campus West	Boswell Hall	BSMT/GRND	40	Classroom	40	604	15	24	B	B					
16-30	New Campus West	Boswell Hall	SECOND	201	Classroom	42	604	14	24	B	B					
16-30	New Campus West	Boswell Hall	THIRD	343	Classroom	20	604	30	24	B	B					
16-30	New Campus West	Boswell Hall	BSMT/GRND	38	Classroom	38	607	16	24	B	B					
16-30	New Campus West	Boswell Hall	BSMT/GRND	37	Classroom	38	610	16	24	B	B					
16-30	New Campus West	Boswell Hall	BSMT/GRND	39	Classroom	38	610	16	24	B	B					
16-30	New Campus West	Boswell Hall	SECOND	203	Classroom	40	610	15	24	B	B					
31-50	New Campus West	Boswell Hall	SECOND	220	Classroom	75	833	11	33	B	B			B		
31-50	New Campus West	Boswell Hall	THIRD	341	Classroom	50	874	17	35	B	B			B		
31-50	New Campus West	Boswell Hall	THIRD	342	Classroom	50	878	18	35	B	B			B		
31-50	New Campus West	Boswell Hall	BSMT/GRND	20	Classroom	70	880	13	35	B	B			B		
31-50	New Campus West	Boswell Hall	FIRST	140C	Classroom	20	930	47	37	B	B			B		

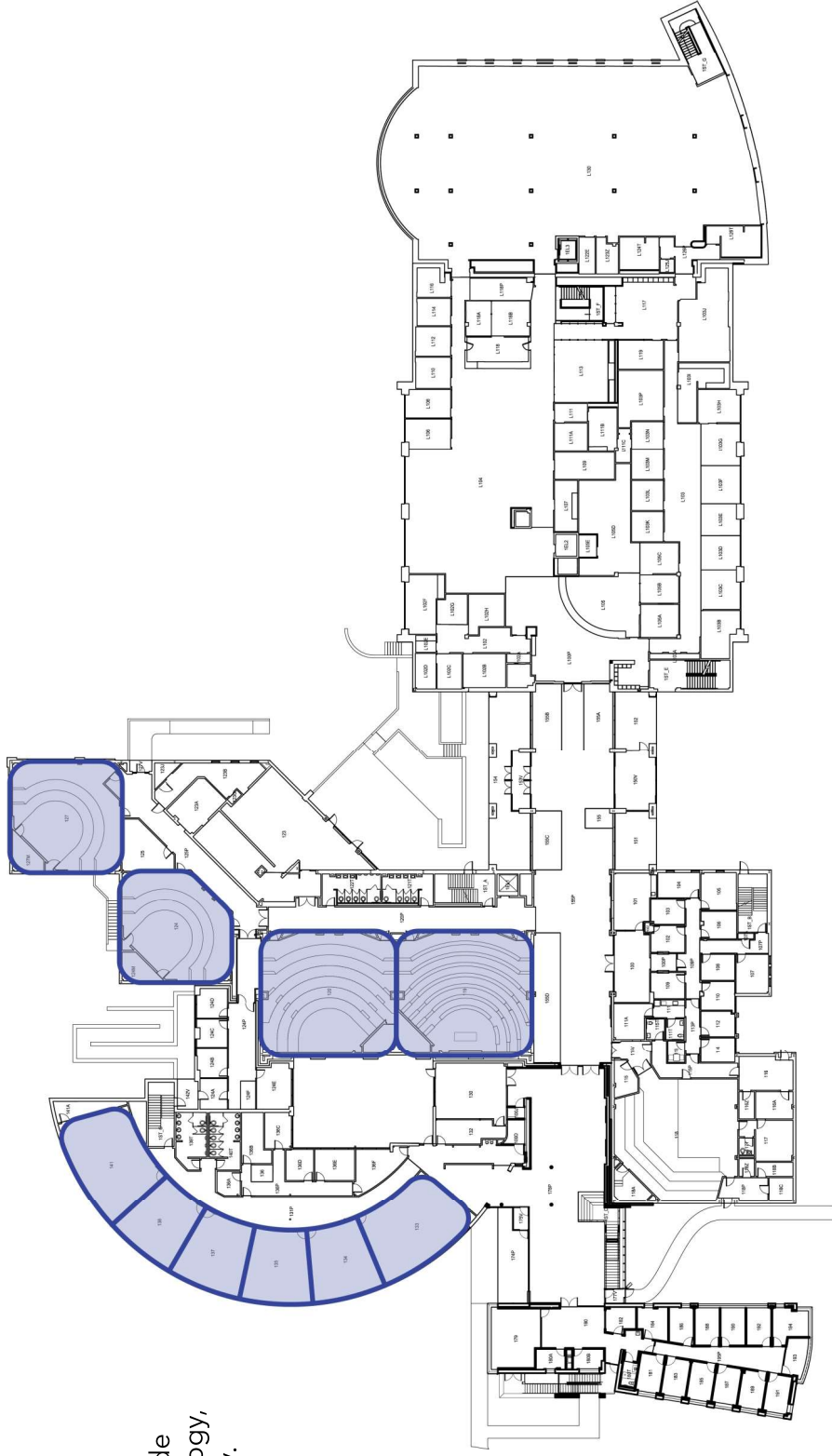


# New Campus West | Renovation Matrix

No. of Seats	Cluster	Building	Floor	Space	Classroom or Lab	Current Capacity	Total Room ASF	Current ASF per Seat	Recommended Capacity (at 25 ASF/seat)	Renovation Priority	PROTOTYPES: Size Brackets					
											Seminar (≤15 seats)	Small 1 (16-30 seats)	Small 2 (31-50 seats)	Medium 1 (51-75 seats)	Medium 2 (76-100 seats)	Large 1 (101+ seats)
≤15	New Campus West	Jones Hall	FIRST	113	Classroom	20	319	16	13	B	B					
15-30	New Campus West	Jones Hall	THIRD	306	Classroom	36	619	17	25	B						
31-50	New Campus West	Jones Hall	THIRD	301	Classroom	50	942	19	38	B	B					
31-50	New Campus West	Jones Hall	THIRD	302	Classroom	44	965	22	39	B	B					
15-30	New Campus West	Miller Hall	FIRST	1005	Classroom	24	672	28	24	A						
31-50	New Campus West	Miller Hall	FIRST	1019	Classroom	45	1470	33	45	A						
31-50	New Campus West	Miller Hall	FIRST	1027	Classroom	45	1413	31	45	A						
31-50	New Campus West	Miller Hall	FIRST	1077	Classroom	45	1480	33	45	A						
31-50	New Campus West	Miller Hall	FIRST	1078	Classroom	45	1706	38	45	A						
31-50	New Campus West	Miller Hall	SECOND	2003	Classroom	45	1888	42	45	A						
31-50	New Campus West	Miller Hall	FIRST	1069	Classroom	48	1406	29	48	A						
51-75	New Campus West	Miller Hall	FIRST	1008	Classroom	60	1833	31	60	A			A			
51-75	New Campus West	Miller Hall	FIRST	1013	Classroom	60	1763	29	60	A			A			
51-75	New Campus West	Miller Hall	FIRST	1018	Classroom	60	1701	28	60	A			A			
51-75	New Campus West	Miller Hall	FIRST	1082	Classroom	60	1758	29	60	A			A			
51-75	New Campus West	Miller Hall	FIRST	1088	Classroom	60	1833	31	60	A			A			
51-75	New Campus West	Miller Hall	FIRST	1090	Classroom	60	676	11	60	A			A			
101-125	New Campus West	Small Hall	FIRST	110	Classroom	166	2548	15	102	C						
15-30	New Campus West	Small Hall	SECOND	235	Classroom	34	518	15	21	C	C					
15-30	New Campus West	Small Hall	SECOND	233	Classroom	46	586	13	23	C	C					
31-50	New Campus West	Small Hall	FIRST	122	Classroom	35	777	22	31	C		C				
31-50	New Campus West	Small Hall	FIRST	111	Classroom	69	1209	18	48	C		C				

# School of Law Strategy

- Renovation category B: **minor renovations.**
- Keep room layouts but upgrade furniture and finishes, technology, egress routes and accessibility.



# School of Education Strategy

- Renovation category B: **minor renovations.**
- Keep room layouts but upgrade wall writing surfaces, technology, and some finishes.

