

Campus Development Committee

Monday, November 25, 2024 Holladay Hall, Conference Room 18 1:30 PM – 3:00 PM

Attendance and Distribution

Members Present: Warwick Arden; Charles Maimone; Alyson Wilson

<u>Subcommittee representatives present</u>: Alicia Knight; Allen Boyette; Barbara Moses; Bill Davis; Cameron Smith; Dana Harris; Doug Morton; Lisa Johnson; Patrick Deaton; Sumayya Jones-Humienny

Guests: Don Hunt and Charles Clift with EMAS Registration and Records

Approval of the Minutes

The minutes of the October 28, 2024, meeting were approved and have been posted.

Campus Planning Subcommittee Information Items

- 1. Delegated Authority Determinations: The following was approved:
 - a. The Collaborative Gateway Tech Center, 3400 N. Wesleyan Blvd Street, Rocky Mount, NC Strategic Lease, Space Request #24-22
- 2. Consent Agenda: NA
- 3. Action Items:
 - a. <u>Small Business and Technology Development Center (SBDTC), 5 W Hargett St, Suite 600, Raleigh,</u> NC Strategic Lease, Space Request #24-23: A. Knight presented the request.
 - SBTD has been in its current downtown location for about 20 years; however, they are looking for a strategic lease closer to the university before the lease expires in December of 2025.
 - ii. The Committee approved the decision to move forward with negotiations on a new lease and to bring it before the Board of Trustees for final approval.

4. Information Items:

- a. <u>110 Classroom Baseline Utilization and Proposed Update to Classroom Scheduling Policy (Info</u> <u>Item 24.12)</u>: D. Hunt introduced, and C. Clift presented, the "2024-11-25 CDC 110 Classroom Utilization Analysis-Fall2024" [pdf slide] presentation.
 - i. Because there is a current shortage of classrooms with the closure of Poe Hall and numerous other buildings under renovation, Registration and Record's (Reg & Rec) goal is to increase the spread of course sections across scheduling blocks for each academic weekday to use more available scheduling hours.
 - ii. Their method is to define the prime-time scheduling period, ascertain scheduling data by subject/academic organization, and overlay the scheduling data by classroom region or neighborhood with classroom seat counts. Reg & Rec will share the information with the academic organizations that have the least spreads to let them decide the best way to increase them.
 - iii. Reg & Rec is asking the Committee for the charge to create a University Regulation for academic organizations' compliance.
 - iv. The Committee asked whether the fill rate of enrolled students was factored into each classroom's capacity. Campus Planning stated that the fill rate requirement increased from 65% to 75% with the 2023 Physical Master Plan to achieve better efficiency.
 - v. The Committee noted that 110 classrooms are also used for events and study groups outside of classes and requested Reg & Rec consider any pinch points.

- vi. The Committee is in favor of creating this University Regulation and placing control of the spread with the academic organizations. Reg & Rec will present the findings and the regulation to the Faculty Senate and the Academic Policy Committee of the Faculty Senate. Reg & Rec will return to a future Campus Development Committee meeting to provide an update.
- DELTA Testing Center Study 202413010, DH Hill Library (Related to Space Request #23-20): S Jones-Humienny presented the "2024-11-25 CDC DELTA Testing Ctr in DH Hill Test Fit rev" [pdf slide] presentation.
 - i. Because the D.H. Hill, Jr. Library was ascertained to be the best location for DELTA Testing Center's relocations as it pertains to student success, the purpose of this study was to determine whether it is feasible to accommodate both the core and pop-up testing facilities on the 4th Floor of the North and South Bookstack Towers.
 - ii. The findings of the study demonstrated that it is feasible, but costly, as the building systems (plumbing, mechanical, and electrical) are at the end of their service lives. Therefore, they must not only be replaced but they must also increase in capacity to address greater occupant and equipment loads.
 - iii. The cost for the core facility is about \$8M and the cost to include the pop-up facility totals approximately \$10.5M in today's dollars. Escalation must be factored in, and the amount will depend on when funding can be procured. Facilities submitted the \$8M request as the 4th priority on the 2025-27 Biennial Six Year Capital Plan in the Major Repair and Renovation category.
 - *iv.* Funding sources could be from SCIF R&R, Carry Forward R&R, Gifts, and ETF funds, but not debt.
 - v. P. Deaton shared the Libraries' concern about the net loss of between 83 and 197 study seats, and at least 8 study rooms. Campus Planning noted that with each renovation or new academic project, study/lounge space is added across campus.
 - vi. Since DELTA Testing Center's lease expires in four years, the Committee stated they would like to relocate both the core facility and co-locate the pop-up facility (currently in the McKimmon Center) to the library; however, there is no available funding without an appropriation from the state legislature. They asked the Campus Planning Subcommittee to look for an alternate lease space solution while continuing to study obtaining more study space in the library. One option is to use the mechanical penthouse space on the roof where a cooling tower was removed to place the new equipment rather than put a new equipment room on the 5th Floor. The intent is to pursue this relocation as a long-term solution, knowing that it will take more time and more funding.

Project Execution Subcommittee Information Items

- 1. <u>Project Status Updates</u>: C. Smith presented the "2024-11-25 CamDevCmte Pres Proj Exec Updates" [pdf slide] presentation.
 - i. <u>Research Support Facility</u>: Facilities is revisiting site selection options for this 90-day holding facility for Centennial Campus since the original location near the Lonnie Poole Golf Maintenance facility negatively impacts it. The proposed alternative site near the intersection of Trailwood Dr. and Main Campus Dr. is close to utilities. The Advanced Nuclear Research Facility is also considering this location and requires about eight acres. Facilities will confirm that these functions are compatible.
 - ii. <u>Mann Hall Renovation</u>: Facilities is pursuing two options for \$10M of additional funding as the risk of shelling out the 4th Floors has major impacts to the College of Engineering's growth for new hires.

Other Business: N/A

Next Meeting: Monday, January 27, 2025, 1:30 PM - 3:00

Meeting Adjourned: 2:55 PM

2024-11-25 Campus Development Committee Meeting

Project Execution Updates

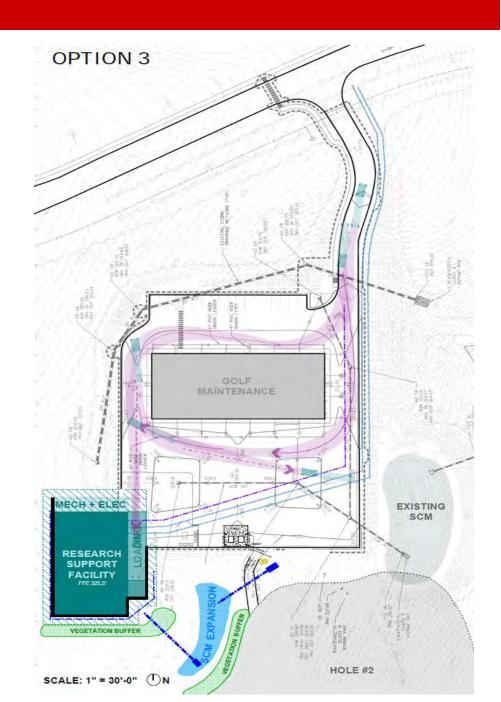
- Research Support Facility
- Mann Hall Renovation



Project Execution Updates

Research Support Facility

- Revisiting site selection options
 - Current proposed options negatively impact Golf Maintenance operations
 - Better uses of that property "long term"?



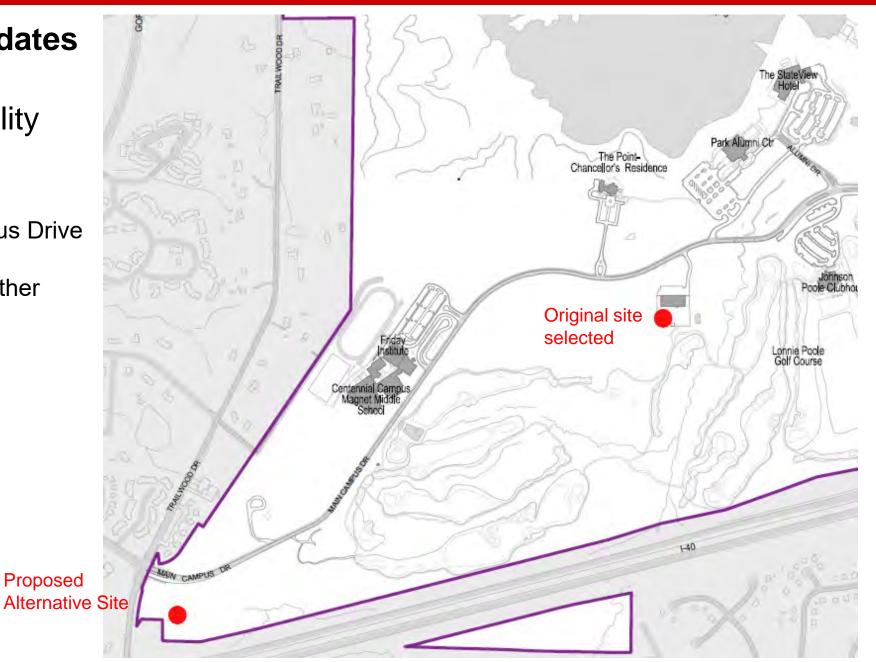
Project Execution Updates

Research Support Facility

Facility Site Selection

Consider a site off Main Campus Drive at Trailwood Drive

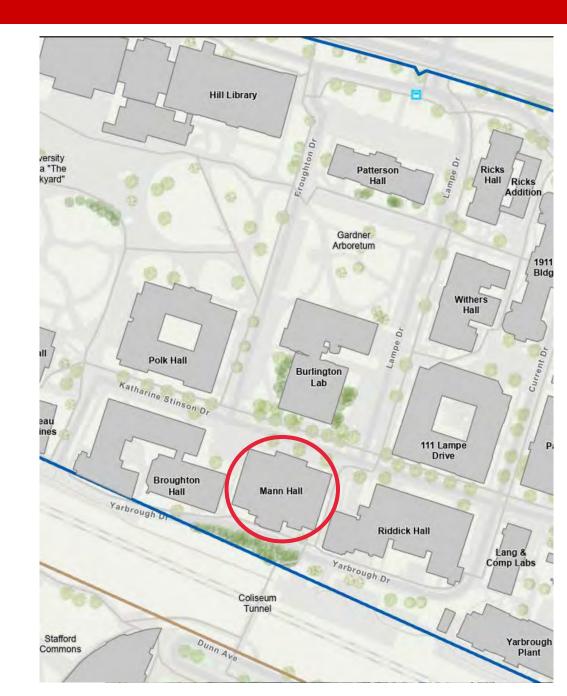
- Catalyst for development of other research facilities in that area
- Permission to study this site?



Project Execution Updates

Mann Hall Renovation – Phase 3

- Need additional funding = \$10M
 - At risk of "shelling out" one floor
 - Pursuing two options for funding
 - Six-Year Capital Plan request (FY25-26)
 - SCIF Contingency "Flex" Funds
 - At risk of "shelling out" the entire 4th-floor
 - Major impacts to COE growth



110CLASSROOM

Charles Clift

Assistant Vice Provost and University Registrar Registration and Records

ceclift@ncsu.edu



OVERVIEW





OVERVIEW

- Charge
- **110 Classroom Numbers**
- **110 Classroom Utilization**
 - Across time blocks
 - By academic organization Ο
 - By region Ο
 - By seat count Ο

Considerations

- Upcoming building closures/renovations
- Increasing enrollment Ο
- Prepared to respond to a charge to develop a regulation Ο

COMPARE E





CHARGE

Define the prime time scheduling period

- Analysis showed difficulty with prime time versus non-prime time \bigcirc
- Six scheduling blocks based on start time Ο

Ascertain scheduling data by subject

- Used academic organization tied to scheduled classes and sections \bigcirc
- Ο

Overlay scheduling data by classroom region or neighborhood

- Using established region or neighborhood \bigcirc
 - (5) Court of North Carolina (6) Centennial

Academic organization closely aligns with department and scheduling access

(1) Western Blvd. (2) Cates Ave. (3) Governors Scott Courtyard (4) Brickyard



CHARGE

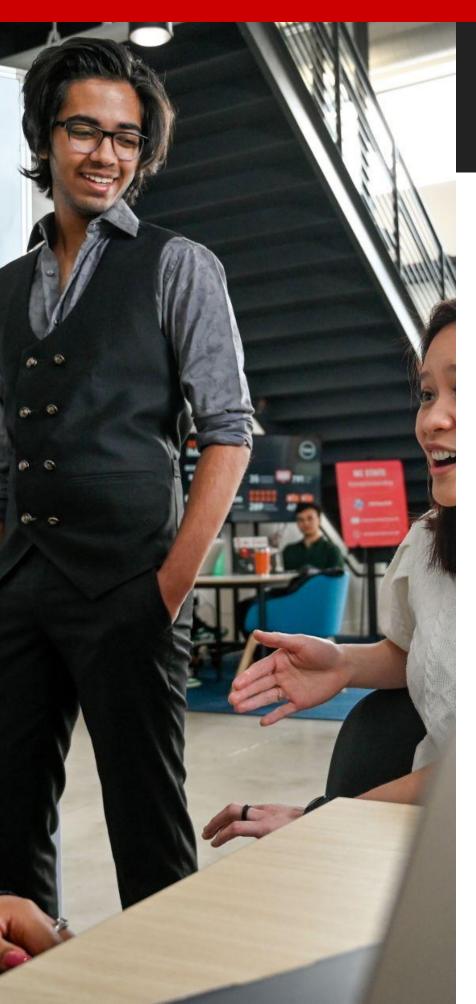
Overlay scheduling data onto classroom seat or station count

- Seat count determined by number of classrooms across ranges as well as scheduling frequency
- Seat Count Ranges and number of classrooms in each range Ο
 - 0-24 27 ■ 49-69 - 28
 - 25-30 24 70-99 25
 - 31-40 37 100-199 19
 - 41-48 41 200+ 9

Share scheduling analysis with academic units

• Registration and Records to share in early 2025





110 CLASSROOM NUMBERS

A 110 Classroom is a general use classroom for scheduled instruction not tied to a specific subject or discipline, or the configuration and equipment in the room. This includes general-purpose classrooms, lecture halls, seminar rooms, and rooms used primarily for scheduled non-laboratory instruction.

237*	110 classrooms
3	110 classrooms managed b
24	110 classrooms currently of
210*	Active 110 classrooms sc Records (Fall 2024)

*Talley 4140 is not officially classified as a 110 space. R&R pays to use this room on a limited basis each semester.

by the College of Veterinary Medicine

ffline (Poe Hall and Mann Hall)

cheduled by Registration and

SCHEDULING ACROSS TIME BLOCKS



SCHEDULING ACROSS TIME BLOCKS

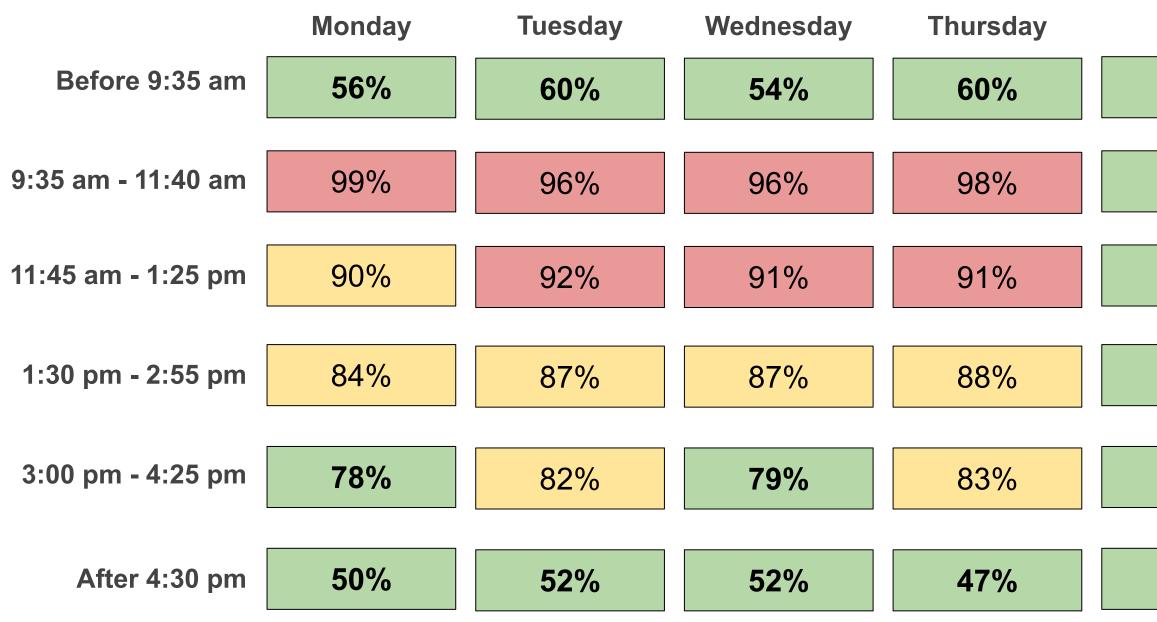
Percent of total sections scheduled in 110 classrooms by time block, as of Fall 2024 census (210 total 110 classrooms).

PERCENTAGE OF SECTIONS SCHEDULED ACROSS THE WEEK

Before 9:35 am	10.3%
9:35 am - 11:40 am	22.8%
11:45 am - 1:25 pm	20.9%
1:30 pm - 2:55 pm	16.3%
3:00 pm - 4:25 pm	16.4%
After 4:30 pm	13.3%
Total	100%

210 SCHEDULED 110 CLASSROOMS - TIME AND DAY

The visual shows the percent usage of 110 classrooms by time block as of Fall 2024 census. 1% = approx. 2 110 classrooms.



Friday

29%	Green
	>= 40 Unused 110 Classrooms
52%	Yellow
	>= 20 and <= 39 Unused 110 Classrooms
42%	Red
	< 20 Unused 110 Classrooms
20%	
6%	
2%	

SCHEDULING BY ACADEMIC ORGANIZATION



ACADEMIC ORGANIZATION - BEST SPREAD BY TIME

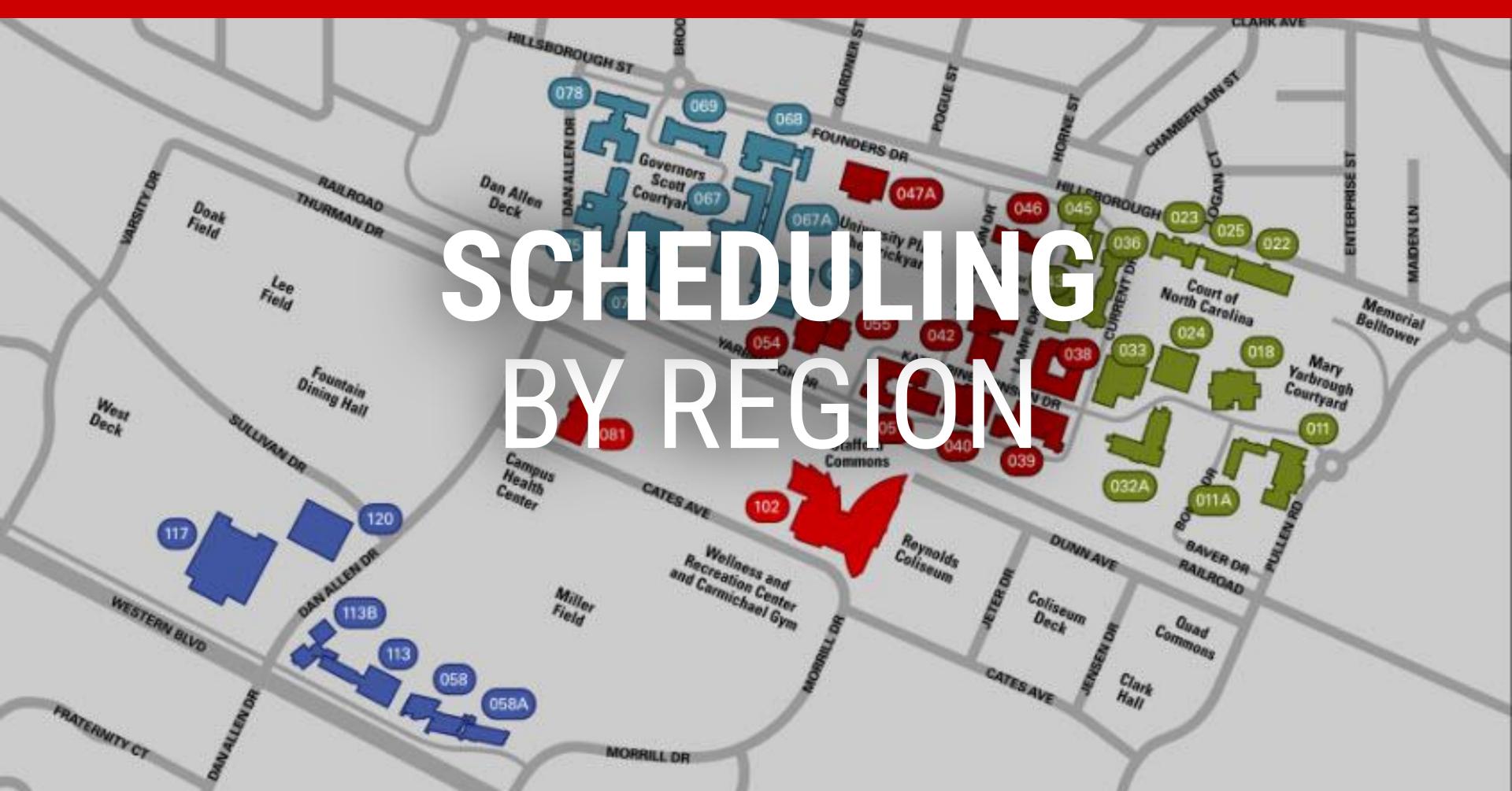
Percent of total sections scheduled in 110 classrooms by SIS academic organization and time block, as of Fall 2024 census (210 total 110 classrooms). Green blocks are within 3% of even spread. Yellow within 6%. Red 6% or more.

Academic Organization	Total Sections	Before 9:35	9:40-11:40	11:45-1:25	1:30-2:55	3:00-4:25	After 4:30
	Even Spread	17%	17%	17%	17%	17%	17%
Bus Mgmt	78	14%	15%	21%	14%	19%	17%
Mathematics	233	12%	18%	22%	11%	19%	18%
Accounting	52	12%	23%	23%	13%	13%	15%
Interdisciplinary Studies	34	9%	15%	21%	18%	21%	18%
Comp Sci	97	15%	14%	16%	10%	21%	23%
Mech Eng	61	16%	11%	15%	20%	13%	25%

ACADEMIC ORGANIZATION - COULD IMPROVE BY TIME

Percent of total sections scheduled in 110 classrooms by SIS academic organization and time block, as of Fall 2024 census (210 total 110 classrooms). Green blocks are within 3% of even spread. Yellow within 6%. Red 6% or more.

Academic Organization	Total Sections	Before 9:35	9:40-11:40	11:45-1:25	1:30-2:55	3:00-4:25	After 4:30	
	Even Spread	17%	17%	17%	17%	17%	17%	
TELS	41	0%	44%	34%	10%	5%	7%	
ELPHD	34	0%	9%	6%	15%	38%	32%	
Poli Sci	59	2%	20%	12%	10%	19%	37%	
Civil Eng	51	18%	33%	20%	18%	12%	0%	
Physics	45	9%	27%	24%	31%	9%	0%	
History	59	3%	19%	19%	34%	20%	5%	



SCHEDULING BY REGION - TIME BLOCK

Percent of total sections scheduled in 110 classrooms by region and time block, as of Fall 2024 census (210 total 110 classrooms). Green blocks are within 3% of even spread. Yellow within 6%. Red 6% or more.

Region	Total Sections	Before 9:35	9:40-11:40	11:45-1:25	1:30-2:55	3:00-4:25	After 4:30
	Even Spread	17%	17%	17%	17%	17%	17%
Western Blvd.	189	7%	28%	24%	21%	15%	4%
Cates Ave.	18	11%	22%	17%	22%	17%	11%
Governors Scott Courtyard	529	11%	24%	24%	16%	14%	11%
Brickyard	472	10%	25%	22%	18%	16%	8%
Court of North Carolina	949	9%	22%	20%	15%	17%	17%
Centennial	476	13%	19%	17%	15%	18%	18%

SCHEDULING BYSEAL COUNT



SCHEDULING BY SEAT COUNT - TIME BLOCK

Percent of total sections scheduled in 110 classrooms by seat count and time block, as of Fall 2024 census (210 total 110 classrooms). **Green** blocks are within 3% of even spread. **Yellow** within 6%. **Red** 6% or more.

Seats	Total Sections	Before 9:35	9:40-11:40	11:45-1:25	1:30-2:55	3:00-4:25	After 4:30	
	Even Spread	17%	17%	17%	17%	17%	17%	
0-24	333	11%	23%	22%	15%	16%	14%	
25-30	334	8%	22%	19%	16%	17%	16%	
31-40	477	8%	25%	23%	17%	15%	13%	
41-48	494	10%	21%	20%	17%	19%	14%	
49-64	348	11%	24%	23%	16%	16%	11%	
65-99	287	12%	22%	20%	18%	17%	11%	
100-199	241	15%	21%	20%	16%	15%	14%	
200+	119	15%	21%	19%	15%	16%	13%	

CONSIDERATIONS





CONSIDERATIONS

Continued building closures/renovations

Increasing enrollment

• Enrollment projected to increase by 10% to 42,148 by 2030

Need opportunities to:

- Spread schedules more evenly between all scheduling time blocks
- Explore new space on campus OFA Seed Grant

Prepared to respond to the Charge for a regulation

• Explore, benchmark, and develop a 110 classroom scheduling regulation

THANK YOU ANY QUESTIONS?



110 CLASSROOMS Leice 2000 200 ACROSS TIME AND DAY



Meeting Pattern Trends - Fall 2024

Row Labels	Count of Meeting	Days						
TBA	2957							
TTh	1151	32.82%	60.02%	TTh and MW	97.37%	TTh, MW, MWF,	& One day a week	
MW	954	27.20%						
MWF	281	8.01%	8.01%	MWF				
Т	255	7.27%						
M	250	7.13%			13.09%	Meeting Pattern	contains Friday	
W	222	6.33%			41.26%	Meeting Pattern contains Tuesday		
Th	188	5.36%			43.74%	Meeting Pattern contains Monday		
F	114	3.25%	29.34%	One day a week	42.37%	Meeting Pattern contains Wednesday		
WF	25	0.71%			39.35%	Meeting Pattern	contains Thursday	
MTThF	23	0.66%						
MTh	15	0.43%						
TF	14	0.40%						
MF	8	0.23%						
S	2	0.06%						
MTWThF	2	0.06%						
MTWTh	1	0.03%						
TW	1	0.03%						
MT	1	3507	sum without TB/	4				
Grand Total	6464							

Unified Campus Timetable (Effective Spring 2016)

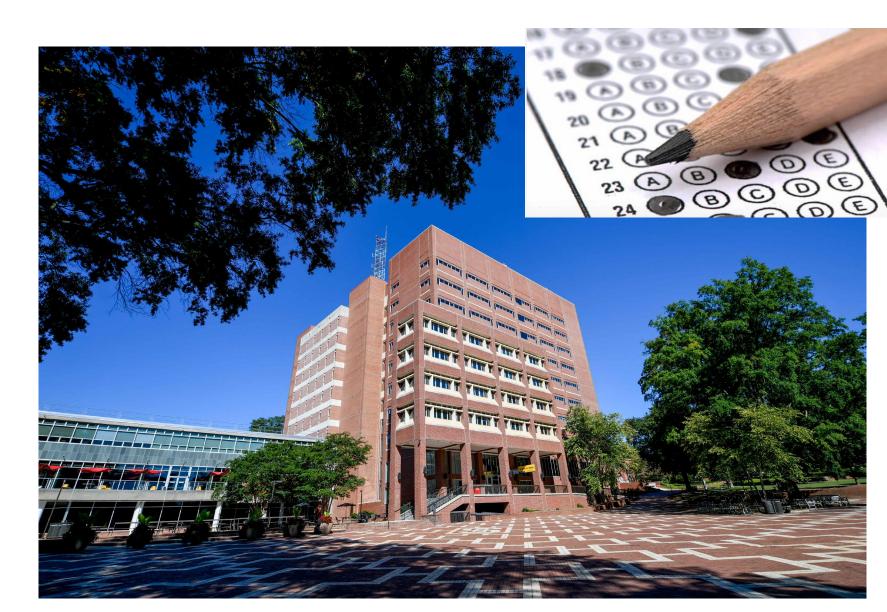
View or download a printable PDF of the Campus Time Schedule

MWF, 50 min.	MW or WF or MF or TH, 75 min.
8:30 a.m. – 9:20 a.m.	8:30 a.m. – 9:45 a.m.
9:35 a.m. – 10:25 a.m.	
10:40 a.m. – 11:30 a.m.	10:1 <mark>5</mark> a.m. – <mark>11:30 a.</mark> m.
11:45 a.m. – 12:35 p.m.	11:4 <mark>5 a.m. – 1:00 p.m</mark> .
12:50 p.m. – 1:40 p.m.	
1:55 p.m. – 2:45 p.m.	1:30 p.m. – 2:45 p.m.
3:00 p.m. – 3:50 p.m.	3:00 p.m. – 4:15 p.m.
4:30 p.m. – 5:20 p.m.	4:30 p.m. – 5:45 p.m.
6:00 p.m. – 6:50 p.m.	6:00 p.m. – 7:15 p.m.
7:30 p.m. – 8:20 p.m.	7:30 p.m. – 8:45 p.m.

2024-11-11 Capital Planning Subcommittee Meeting – Planning Studies Update

DELTA Testing Center Test Fit DH Hill Library North and South Towers

- Existing Conditions
- Feasibility
- Program:
 - Core Testing
 - Pop-up Testing
- Test Fit Scenarios
- Cost Estimates
- Funding Sources and Next Steps



DH Hill Library N and S Towers Existing Conditions

- Stair egress accommodates 700
 occupants
- Building System upgrades needed
- Toilet upgrades needed

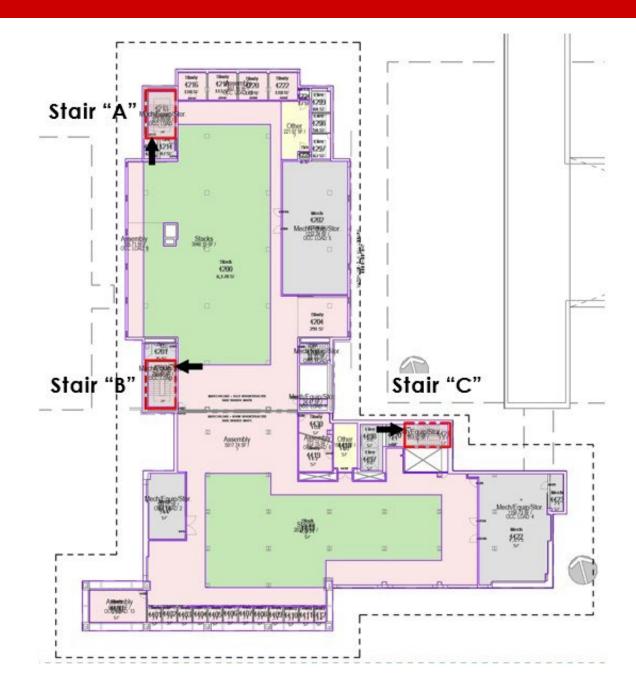
Plumbing Summary:

Current plumbing fixtures meet current 2018 NCSBC plumbing Code req's for all but **female toilet count & Service Sinks.** Increasing occupancy will require renovating bathrooms to match Level 03.

Egress Summary:

Current egress accommodates the occupancy of "Book Stacks" and "Reading Room" areas. The three egress stairs meet 2018 NCSBC Code requirements for **700 occupants**.

- Egress paths will require a strategy of Stairs A & B or Stairs B & C serving the DELTA "suite". The remaining area will rely on the remain stair tower.
- Stair combinations "A-B" & "B-C" have adequate capacity and separation to meet 2018 NCSBC requirements.



Program

- Core Testing
- Pop-up Testing

	Requirements	Additional Requirements	Square Footage		
Core Testing	(80) Total Seats (5) DRO Stations (2) Small 15 station rooms Remainder in (1-2) large rooms	(2) 10X12 Electrical Rooms (1) 10X14 Telecom	2,003 SF Core Testing		
Check-In & Lockers		11 Lockers for Testing Stations (5) Check-In Seats with 57"/Person (2) Check-Out Seats: 57"/Person	624 SF (Check-In/Check-out) 125 SF (Lockers)		
Storage & Staff		(2) Private Offices (6) Open Workstations	936 SF (Staff Requirements) 390 SF (Storage)		
		Core Total	4,078 SF		
Pop-Up Testing	(160) Total Seats (4) Rooms of 40 stations Waiting Area* / Study Zone	Pop-up Total	3,854 SF (Reduced efficiency due to existing column locations)		
		Grand Total	7,932 SF		

* Portions of the requested Program have been omitted or accounted in other ways:

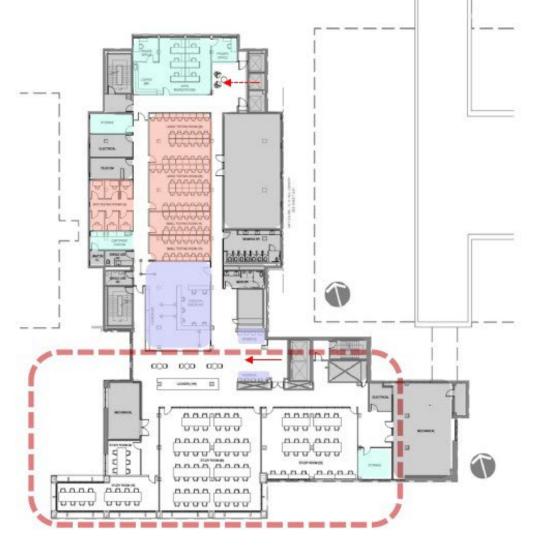
Add'l Waiting Area – accounted in general Library study areas

Food/Beverage – Deferred to elsewhere in the Library

Additional non-assignable area: 480 SF for Electrical and Telecom

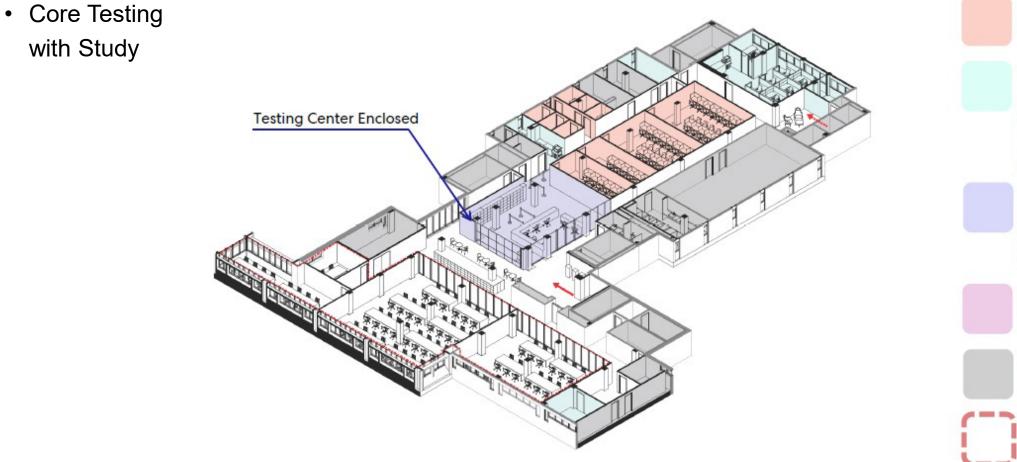
Test Fit Scenario 1

 Core Testing with Study





Test Fit Scenario 1 Axonometric View



CORE TESTING (90) Testing Stations

STORAGE & STAFF (2) Private Offices (6) Open Workstations (2) Storage Closets (1) Copy/Print Station (1) Coffee Bar

CHECK-IN & LOCKERS (7) Reception Seats (8) Kiosks (95) Lockers @ Check-In (144) Lockers in Library

POP-UP TESTING

MECHANICAL / RESTROOM

STUDY ZONE (114) Reading Seats

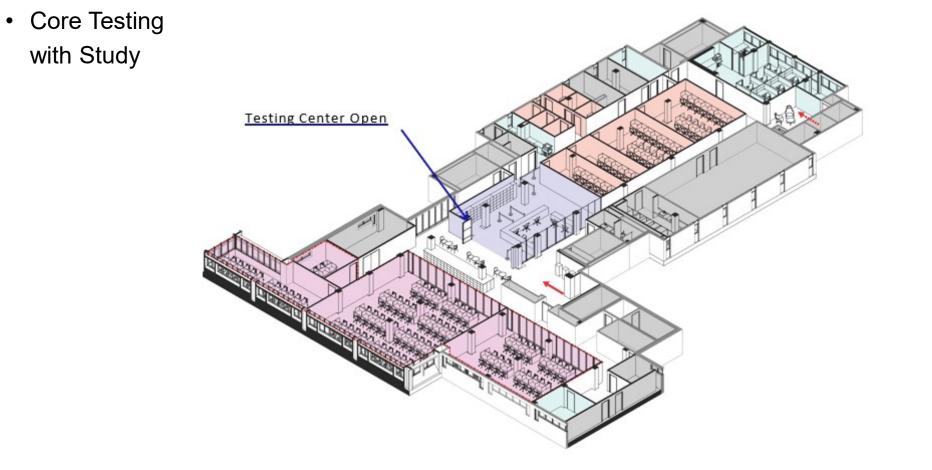
Test Fit Scenario 2

- Core Testing with
- Pop-up Testing used during final exams





Test Fit Scenario 2 Axonometric View



CORE TESTING (90) Testing Stations

STORAGE & STAFF

(2) Private Offices
(6) Open Workstations
(2) Storage Closets
(1) Copy/Print Station
(1) Coffee Bar

CHECK-IN & LOCKERS

(7) Reception Seats (8) Kiosks (95) Lockers @ Check-In (144) Lockers in Library

POP-UP TESTING (144) Pop-Up Stations

MECHANICAL / RESTROOM

STUDY ZONE



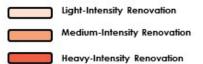
Core Testing
 Only



Cost Intensity Estimation

Anticipated costs are derived using rough order of magnitude construction cost/sf metrics.

Based on market conditions, light, medium, and heavy unit costs are applied to zones of renovation based upon the type of work being performed. Major equipment is also added into appropriate phases when it is not captured in the cost/sf data.



<u>A revised estimated opinion of the cost of</u> work is \$8,613,545*, which includes

construction cost, soft costs, and FF&E costs. Budget estimates are in 2024 dollars and should be escalated to reflect future market inflation once the scheduling of work is better understood.

*Initial preliminary Cost Intensity Estimation issued on 09.27.2024 from a preliminary test-fit was <u>\$10,165,487</u>. Excluding Pop-up Testing is a <u>\$3,482,894</u> reduction with no revisions/updates to the remainder of 4th floor.

Cost Estimate 2

 Core Testing with Pop-up and Study

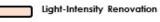




Cost Intensity Estimation

Anticipated costs are derived using rough order of magnitude construction cost/sf metrics.

Based on market conditions, light, medium, and heavy unit costs are applied to zones of renovation based upon the type of work being performed. Major equipment is also added into appropriate phases when it is not captured in the cost/sf data.



Medium-Intensity Renovation

Heavy-Intensity Renovation

A revised estimated opinion of the cost of work is \$10,477,915*, which includes

construction cost, soft costs, and FF&E costs. Budget estimates are in 2024 dollars and should be escalated to reflect future market inflation once the scheduling of work is better understood.

*Initial preliminary Cost Intensity Estimation issued on 09.27.2024 from a preliminary test-fit was <u>\$10,165,487</u>

2024-11-11 Capital Planning Subcommittee Meeting – Planning Studies Update

Funding Sources

• CDC Funding Opportunity Matrix

	А	В	С	D	E	F	G	Н	1	J	к	L	м
1		12 10	_		1446.04	ROPRIA	ΤED		NON-	Appropria	TED		
2	Proposal	Requesting Unit	Priority Tier	Estimated Cost	SCIF Named Capital Projects	SCIF R+R	Carry Forward R&R	F&A	Unit Receipts	Gifts	Student Fees	Specific Fee	Could debt be a component of funding?
						J]	-		-			
29	Partners 1 Lab Co-Working Incubator Project	URED	Third							\checkmark			Yes 🔻
30	PCOM New Building	PCOM	Second		\checkmark					\checkmark			No 🔻
31	Permanent Home for DELTA Testing Services Center	DELTA	First			\checkmark	\checkmark			\checkmark			No 🔹

Next Steps

- Decision to move forward?
- Funding procurement?

