

# Duke Student Wellness Center

Durham, North Carolina, United States



**SQ FT**  
72,000 BGSF



**OWNER/AFFILIATION**  
Duke University



**ARCHITECT(S)**  
Duda Paine Architects



**COMPLETION DATE**  
March, 2017



EXTERIOR VIEW



WELLNESS PAVILION + PHARMACY



MAIN ENTRANCE



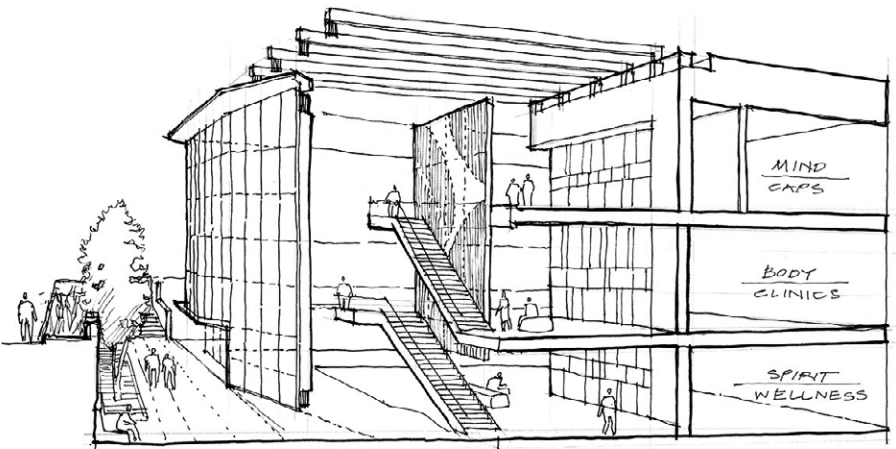
SITE MAP

## ABOUT | DESIGN INTENTIONS

The Student Wellness Center advances student health by consolidating **medical and psychological** services into one location. Situated between residential, student services and athletic districts, the Center provides services for the mind, body and spirit including preventative programs, physical therapy and pharmacy. This innovative facility fulfills Duke's mission to meet the **highest standards of clinical care and wellness** that directly contribute to student's **well-being and success**. **This transformational design has seen an increase in critical metrics for students seeking services while making a list of top places to study on campus.**



EAST ELEVATION



CONCEPTUAL SKETCH



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"Situated between residential, student services and athletic districts, the Center provides services for the mind, body and spirit"

## Three-Story Lobby

The Center's welcoming three-story lobby reaches out to the neighboring Duke Forest and serves as a central 'living room' for students. The lobby also serves as an orientating 'umbrella' under which clinical, health and wellness resources come together.

Blurring the distinction between interior and exterior, the open structure infuses the building with natural light to positively impact user's psychological and physiological state.



THREE-STORY LOBBY

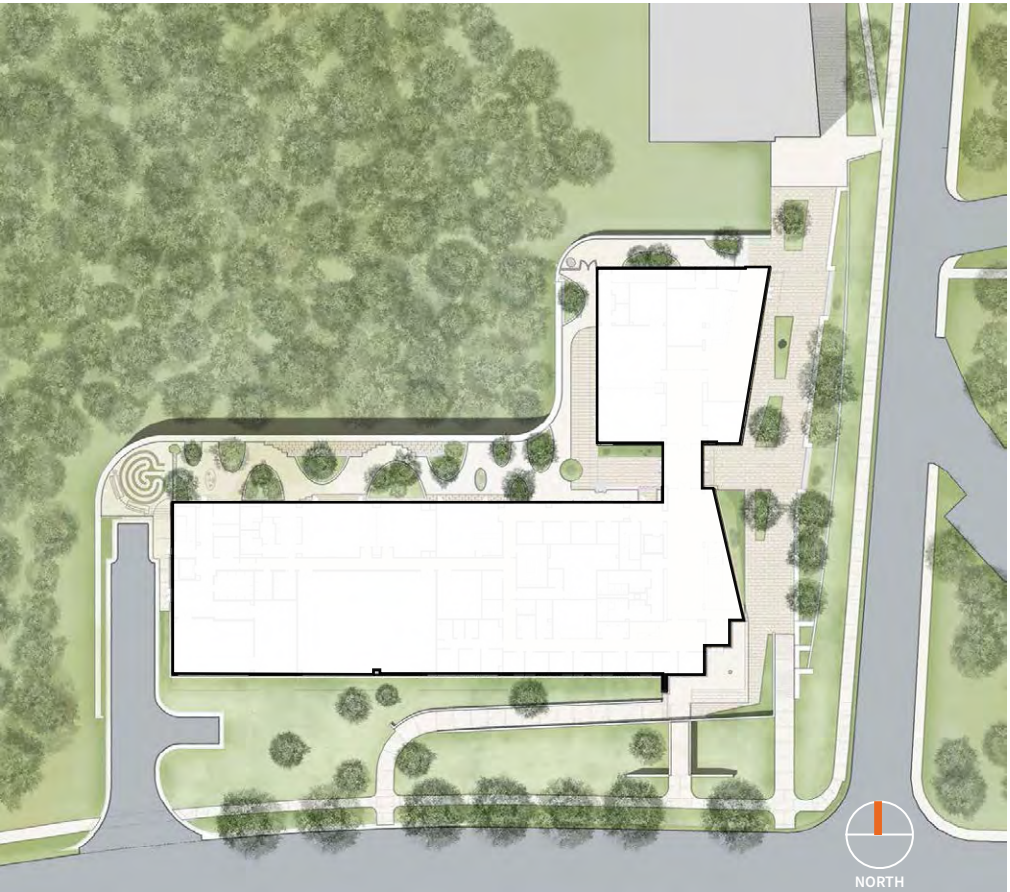


EXTERIOR CONTEMPLATIVE SPACE



NURSE STATION

## SITE PLAN



## Ecological Impact

To preserve the adjacent Anderson Woods, an area of 190K SF [4.36 acres], the building's footprint and area of disturbance was reduced from 47,250 SF [1.1 acres] to 41,000 SF [1 acre].

Site-harvested chestnut white oak trees were locally milled into veneer, panelized and installed to be used as custom desks and reception walls throughout. On-site timbers in the best conditions were hewed into large-scale, monolithic benches, the longest being nearly 20' long, placed adjacent to the lobby rock garden and other indoor spaces of the building. Minimalist connections between wood laminated columns, Wglazing and floor systems enhance the sense of lightness and airiness. Vertical wood louvers and fritted glass provide solar shading, while controlling light and preserving views.

The Center's wooden super-structure, open views, abundant natural lighting, channels of loose river rock and flooring that extends to the outside improve the health and work experience of users.



# Duke Student Wellness Center

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## DEPARTMENT PLAN KEY :

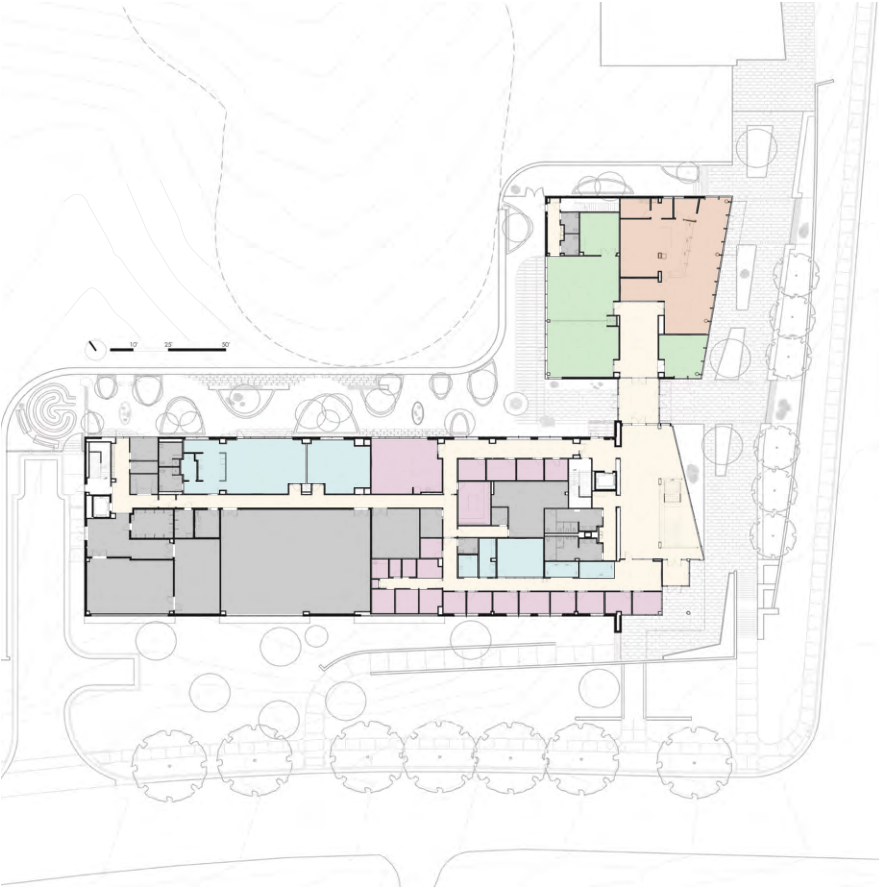
- Clinical/Staff Support
- Clinical
- Building Support
- Pharmacy
- Multi-Purpose/Conference
- Circulation

## DEPARTMENTAL GROSS SQUARE FOOT

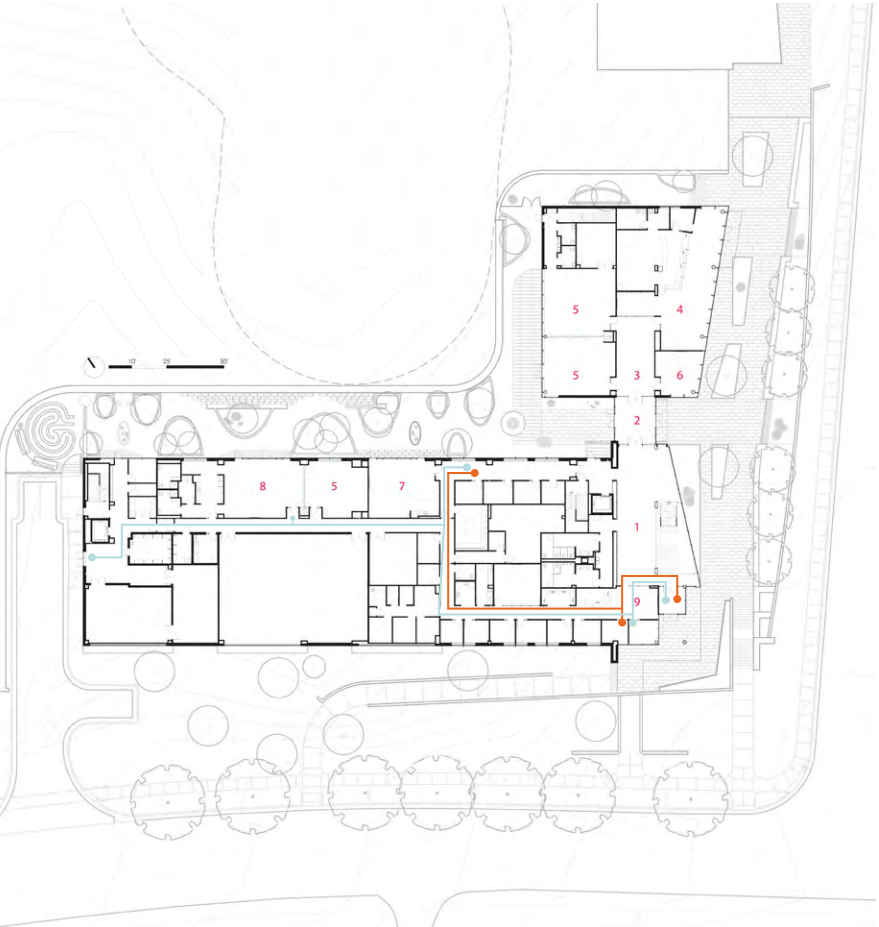
	NSF	GSF	Multiplier
Clinical/Staff Support	2372 SF	2846 SF	1.24
Clinical	3685 SF	4981 SF	1.35
Building Support	7888 SF	8809 SF	1.17
Pharmacy	2165 SF	2420 SF	1.12
Multi-Purpose/Conference	2084 SF	2453 SF	1.18
Total Floor Square Footage	18,194 SF	21,509 SF	1.18

Note: “Departmental Square footages take-off based on ‘Analysis of Departmental Area in Contemporary Hospitals calculation methodologies & Design Factors Report, 2014

## FIRST LEVEL :



## TRAVEL DISTANCE ANALYSIS



## KEY SPACES:

- Lobby
- Connector
- Pre-Function | Gallery
- Pharmacy
- Multi Purpose
- Conference
- Oasis
- Staff Lounge
- DukeReach Case Management

## PATIENT TRAVEL DISTANCE ANALYSIS

- ▶ Exam Rooms (54sf)
- ▶ Staff Work area (109sf)
- ▶ Staff Work core (77sf)

## TRAVEL DISTANCE ANALYSIS

- Patient 54ft - 215ft
- Staff 51ft - 208ft

# Duke Student Wellness Center

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DEPARTMENT PLAN KEY :

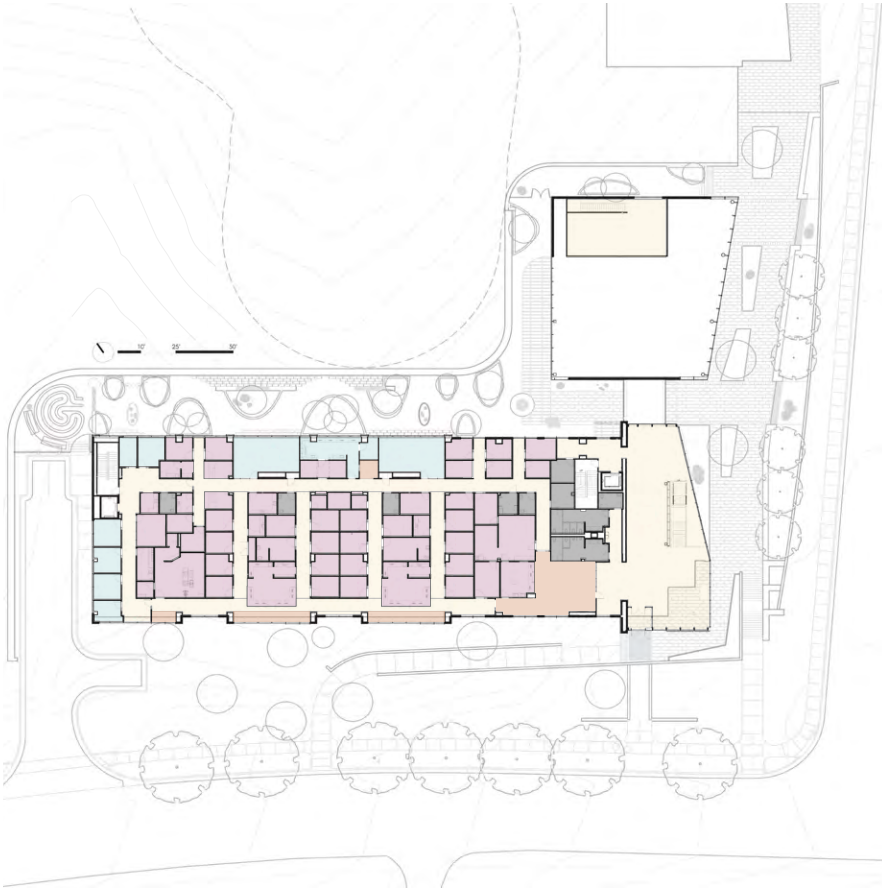
- Clinical/Staff Support
- Clinical
- Building Support
- Waiting
- Circulation

DEPARTMENTAL GROSS SQUARE FOOT

	NSF	GSF	Multiplier
Clinical/Staff Support	2790 SF	3927 SF	1.41
Clinical	6089 SF	9189 SF	1.51
Building Support	1102 SF	1523 SF	1.38
Waiting	1151 SF	1297 SF	1.13
Total Floor Square Footage	11,132 SF	15,936 SF	1.43

Note: “Departmental Square footages take-off based on ‘Analysis of Departmental Area in Contemporary Hospitals calculation methodologies & Design Factors Report, 2014

SECOND LEVEL:



TRAVEL DISTANCE ANALYSIS



KEY SPACES:

1. Lobby
2. Student Health
3. Nurse Station
4. Provider Suite
5. Exam Rooms
6. Conference
7. Admin Suite

PATIENT TRAVEL DISTANCE ANALYSIS

- ▶ Exam Rooms (135sf)
- ▶ Staff Work core (144sf)
- ▶ Consult Rooms (263 sf)

TRAVEL DISTANCE ANALYSIS

- Patient 135ft - 253ft
- Staff 140ft - 257ft

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DEPARTMENT PLAN KEY :

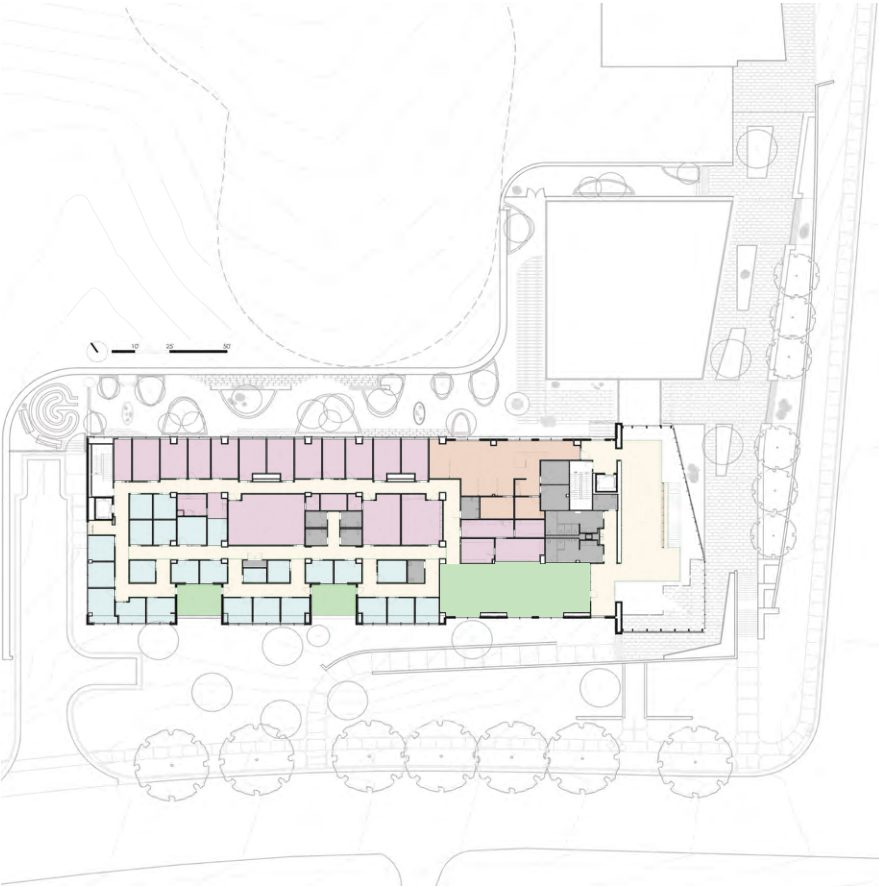
- Clinical/Staff Support
- Clinical
- Building Support
- Physical Therapy
- Waiting/Outdoor Space
- Circulation

DEPARTMENTAL GROSS SQUARE FOOT

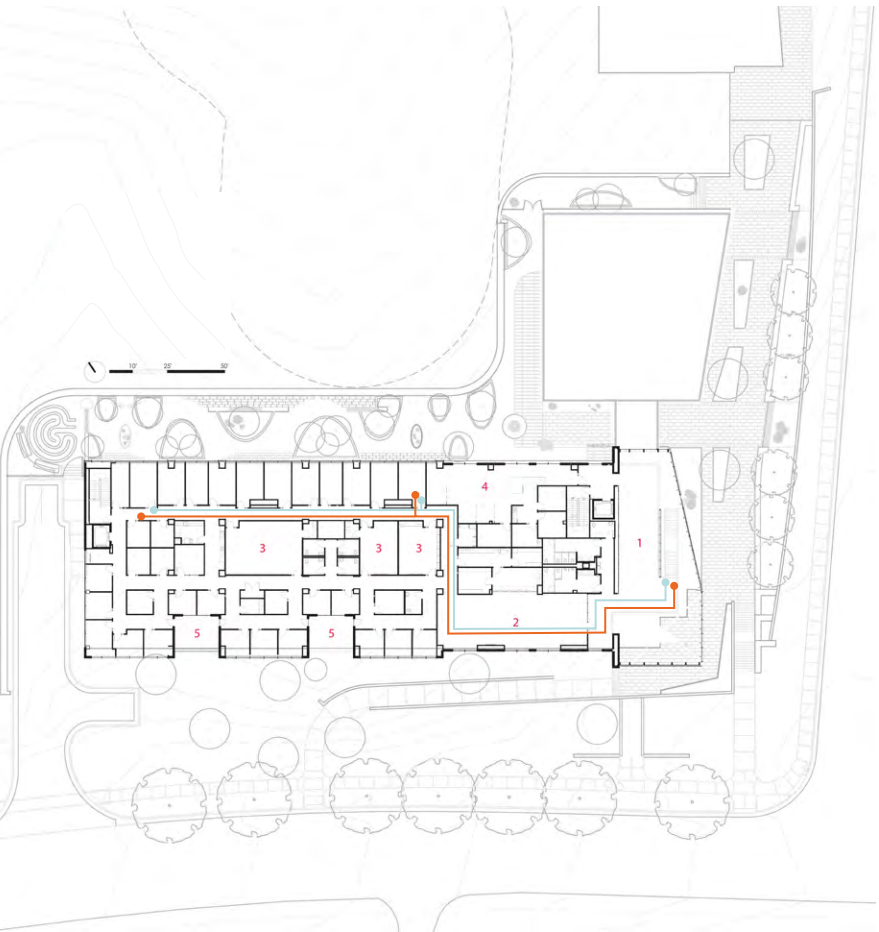
	NSF	GSF	Multiplier
Clinical/Staff Support	3654 SF	6334 SF	1.82
Clinical	4011 SF	5433 SF	1.35
Building Support	1155 SF	1603 SF	1.39
Physical Therapy	1462 SF	1586 SF	1.08
Waiting/Outdoor Space	2019 SF	2213 SF	1.10
Total Floor Square Footage	12,301 SF	17,169 SF	1.40

Note: “Departmental Square footages take-off based on ‘Analysis of Departmental Area in Contemporary Hospitals calculation methodologies & Design Factors Report, 2014

THIRD LEVEL:



TRAVEL DISTANCE ANALYSIS



KEY SPACES:

1. Lobby
2. Counseling & Psychological Services
3. Group Therapy
4. Physical Therapy
5. Terraces

PATIENT TRAVEL DISTANCE ANALYSIS

- ▶ Staff Work area (181sf)
- ▶ Consult Rooms (184-300sf)

TRAVEL DISTANCE ANALYSIS

- Patient 184ft - 300ft
- Staff 179ft - 295ft



# Duke Student Wellness Center

## Monumental Stair

Integrated wayfinding elements and a monumental, interconnecting stair facilitate movement to different services and supports the design’s social sensibilities with views to and from all levels. The space has proven hugely popular with all students.



CONNECTING GRAND STAIR



WAITING ROOM

## PROJECT SUMMARY:

**Project:** Duke Student Wellness Center  
**Project location:** Durham, North Carolina  
**Owner/Client:** Duke University  
**Architect:** Duda Paine Architects  
Structural engineer: Stewart, Inc.  
General contractor:  
MEP engineer: Newcomb & Boyd  
Construction cost: \$27 Million  
Building area GSF: 72,000 GSF  
Cost per square foot: \$375  
Construction start date: March 2014  
Substantial completion date: March 2017

## AIA/AAH DESIGN AWARD WINNER

**Category:** Innovations in Planning and Design Research, Built and Unbuilt

## JURY COMMENT

- ▶ This a very handsome piece of architecture that speaks to what Duke is trying to do with student wellness.
- ▶ The siting is elegant and the building is embedded in the student circulation path.
- ▶ It is encouraging to see a wellness center given such prominence in the campus plan.
- ▶ Each floor has a living room where students can gather, and the grand stair encourages walking.
- ▶ The transparent screens and glazing are an elegant solution, and the wood is very warm and inviting.



MULTI-PURPOSE SPACE



CIRCULATION SPACE



THREE-STORY LOBBY

Image Sources: [https:// www.archdaily.com/904664/duke-student-wellness-center-duda-paine-architects](https://www.archdaily.com/904664/duke-student-wellness-center-duda-paine-architects)