

2023 SGH Concepts / Dri-Design Scholarship

Spring 2023

Arch 411 Architectural Design Studio: Integrate University of Nebraska-Lincoln College of Architecture

University of Nebraska-Lincoln

College of Architecture 232 Architecture Hall Lincoln. NE 68588-0107 (402) 472-7943

architecture.unl.edu

Spring 2023

Arch 411 Architectural Design Studio: Integrate.

Continuation of complex problems as it relates to the integration and consideration of environmental stewardship. Emphasizing technological considerations as formal and organizational influences including technical documentation, accessibility, site design, life safety, environmental systems, structural systems, and building envelope systems and assemblies.

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Photographs.

All photos by Greg Foral unless otherwise noted.

Sponsors

- 6 Jury: Elyse Agnello, Marcelo López-Dinardi, and Todd Walker
- Award of Excellence: Elena Garcia Tapia and Brandy Nguyen
- Award of Honor: Lurvn Hendrickson and Halev Herman
- Award of Merit: Nico Forte and Devyn Beekman
- Award of Merit: Landon Healy and Luke Heidenreich
- Award of Citation: Grace Carlson, Clara Hetherington, and Sidney Renelt

The College of Architecture at the University of Nebraska-Lincoln, in partnership with SGH Concepts (A Division of SGH Redglaze Holdings Inc.) and Dri-Design, has established a student scholarship

competition for the fourth-year, undergraduate, architectural design studios. The scholarship recognizes student projects exemplifying outstanding design investigation, resolution, and significance. This opportunity brings together aspiring architects and industry leaders to advance disciplinary knowledge of design, materiality, and innovation. Following the end-of-semester review, one project from each

studio is selected to compete for the SGH Concepts (A Division of SGH Redglaze Holdings Inc.)/Dri-Design Scholarship. These projects are presented to an external jury who are all established practitioners in their fields. A finalist is chosen for producing and communicating a comprehensive architectural project that is a result of design decisions at different scales. To be successful, students demonstrate a high degree of professional dedication, rigor, open-mindedness, and resourcefulness. Projects are rigorously developed and clearly communicate the breadth and depth of investigation.

We thank our sponsors SGH Concepts (A Division of SGH Concepts Redglaze Holdings Inc.), a leading distributor and installer of customized building products, and Dri-Design, a producer of advanced and sophisticated metal wall panel systems.

Spring 2023 - Architecture Design Studio Faculty

Ashley Byars, Vice President Architect & Design, Noddle Companies, Lecturer of Architecture

Jeff Day, FAIA, NCARB, Professor of Architecture

Michael Harpster, AIA, Assistant Professor of Practice -Architecture

Ryan Hier, AIA, TACK Architecture, Lecturer of Architecture

Beau Johnson, DLR Group, Lecturer of Architecture

David Newton, Assistant Professor - Architecture



SGH CONCEPTS

At the center of our craft is our passion for premium, innovative design. With over 70 years experience in designing and engineering building product solutions for some of the most challenging architectural feats in the market, our focus each day is to find the best way to give form to our clients' vision.

Our team approaches every project with a reverence for making innovative design possible. We are passionate about solving challenges that—in the end—make buildings more beautiful. At SGH Concepts, it is our mission to provide smarter solutions to design opportunities and challenges, from concept to completion. So, whether you are an architect, a general contractor, or an owner, we provide a level of professionalism you demand and a sense of individuality you expect.

We would like to thank Troy Burkey of SGH Concepts for helping establish this program and his continued support of the college and students.



DRI-DESIGN

Founded in Holland, Michigan, in 1995, under the leadership of President Brad Zeeff, Dri-Design has turned the Metal Panel Industry on its ear. With Dri-Design, Zeeff set out to solve what he viewed as the significant shortfalls of traditional metal panel systems: delamination, staining due to the effects of weather on joints and gaskets, a lack of color and texture options, the rising cost of production and inefficient installation practices.

The result of Dri-Design's meticulous engineering, is a 100% recyclable, pressure equalized rain-screen, architectural metal wall panel system that attaches to nearly any substrate without the use of clips or extrusions. The pressure equalized rain-screen design can be installed simply over commercial grade Tyvek onto plywood, or as the most sophisticated outboard insulation pressure equalized rain-screen you can design.

We would like to thank Jason Zeeff of Dri-Design for his continued support of the college and students.

6 JURY



ELYSE AGNELLO
DAAM and Guild Row

Elyse Agnello, AIA, NCARB, is the Founding Principal of DAAM and a Co-Founder of Guild Row. She has a diverse professional background that spans from architectural design and construction to real estate development and cultural event production. Elyse holds a MArch from Harvard, a BS in Architecture from The University of Michigan, and a PGDip from the AA in London. She is a licensed architect in IL, NY & NJ.



MARCELO LÓPEZ-DINARD

Texas A&M University

Marcelo López-Dinardi is an Assistant Professor in the Department of Architecture at Texas A&M University. He is the editor of Architecture from Public to Commons (Routledge, 2023). He holds a B.Arch. from the PUPR and an MS in Critical, Curatorial, and Conceptual Practices from Columbia GSAPP.



TODD WALKER

archimania

Todd is a 1987 graduate of Mississippi State University's School of Architecture with studies at the University of London's Bartlett School of Architecture and Planning. Todd is Founding Partner and Partner-in-Charge of Design at archimania. He is a passionate promoter of design excellence. Progressive, sustainable, and contextual design remain at the core of his focus for the firm's work. He seeks design solutions that elevate the user experience and foster connections across the community.



DISCUSSION PANEL

David Newton and Ashley Byars moderate an insightful panel discussion with jury members Elyse Agnello, Marcelo López-Dinardi, and Todd Walker. The discussion touched on a range of topics involving architectural practice, the expressive use of materials, and architectural education.









STUDIO DESCRIPTIONS

The Market Hall Incubator

Faculty Mentor: Ashley Byars and Ryan Hier

Oldfather Hall is a twelve-story higher education building located in the University of Nebraska's downtown Lincoln Campus. Built in the late 1960s, this building is rich in educational opportunities typologies. Engaging with the pragmatic as well as the theoretical core. Oldfather's abundance in program and connection to Burnett and Bessey Hall make it an ideal candidate for the development of a collaborative learning program.

Possibilities For Low-Rise **Infill Housing**

Faculty mentor: Michael Harpster

This comprehensive studio will reimagine contemporary housing practices through the exploration of dense, low-rise infill housing and is home to five departments within the university's College the studio will examine the various constraints that make the of Arts and Sciences. Located at the center of UNL's academic construction of low-rise housing such a challenge, using these constraints as the starting point for projective exploration of alternative housing models within metropolitan regions across the United States.

Subtraction

Faculty Mentor: Jeff Day

This studio explored subtraction as a means for transforming and extending the usefulness of existing buildings. Spaces created by subtraction can be as dramatic and breathtaking, perhaps even more so, than those formed through addition, yet subtraction is an under-appreciated tool, of the architectural design process. Where subtraction and demolition are traditionally seen as necessary to make way for new architecture, this studio notions of threshold within a series of constructs. explored subtraction as the PRIMARY design procedure.

Step Into The Frame

Faculty Mentor: Beau Johnson

This studio is an exploration of the frame, as formal articulation of threshold and the reciprocal relationships in manifests. Our medium as architects is the built environment, both internal and external, existing and proposed. Our responsibility is to articulate these relationships. Using the 'treasured' Sheldon Art Museum (by Phillip Johnson) as our frame(work), we will address these

Mindscapes: Envisioning **New Architectural Atmospheres for Knowledge** Creation

Faculty Mentor: David Newton

This studio explored the design of an innovation center dedicated to transdisciplinary research on perception and cognition located on the UNL City Campus. The studio approached the project by introducing texts that provide a critical overview of thought on the role of perception and cognition in the creation of architecture. The relation of perception and cognition to computational technologies was explored in the studio by engaging topics such as building performance simulation, generative artificial intelligence, mixed reality, and digital fabrication.

PRE-DELIBERATION









DELIBERATION











Excellence

UNveiled Oldfather Hall Renovation

Elena Garcia and Brandy Nguyen Faculty Mentor: Jeff Day

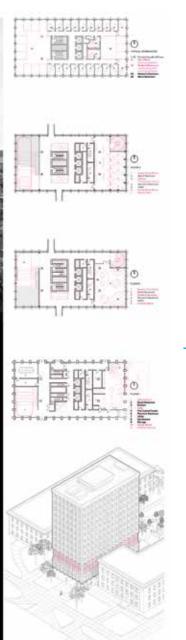
Oldfather Hall is a twelve-story higher education building located in the University of Nebraska's downtown Lincoln Campus. Built in the late 1960s, this building is rich in educational opportunities and is home to five departments within the university's College of Arts and Sciences. Located at the center of UNL's academic core, Oldfather's abundance in program and connection to Burnett and Bessey Hall make it an ideal candidate for the development of a collaborative learning program.

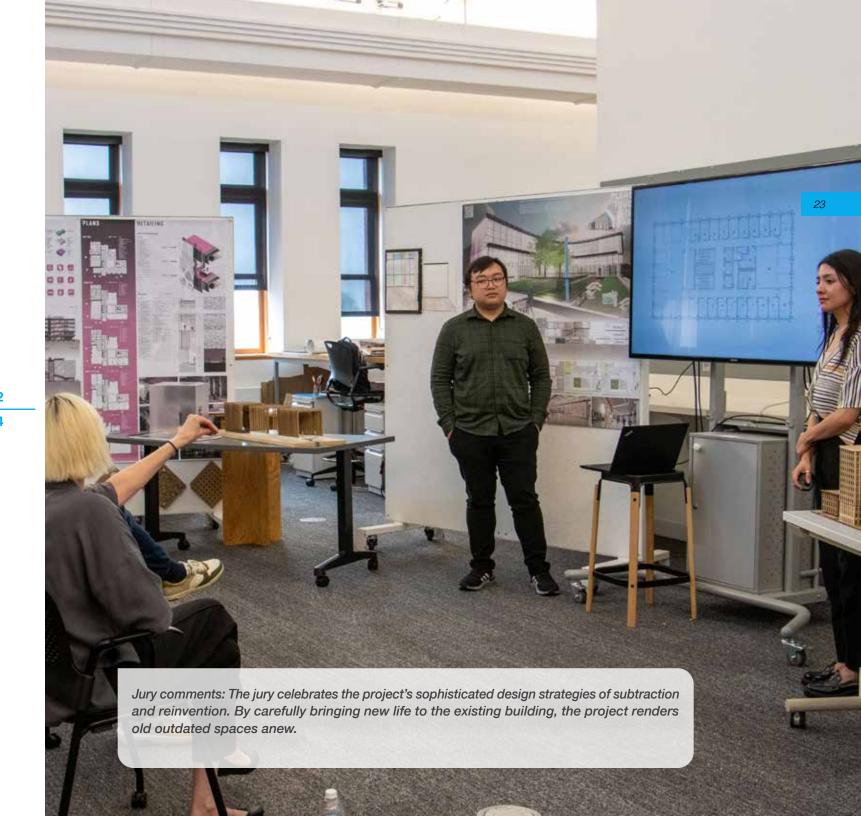
The University of Nebraska-Lincoln's comprehensive master plan envisions a collaborative multi-purpose learning and study space located within this site with the following objectives: the addition of new interactive and collaborative educational programs, the use of transparent facades used to reveal collaborative functions, emphasis on interior qualities of openness, design of new circulation pathways, and optimization of energy use and daylighting, all consolidated within a single location.

This project reimagines the architecture of collaborative learning through means of adaptive re-use rather than through a building addition. Through largely subtractive gestures, this project proposes replacing Oldfather's unused classrooms with collaborative programs on a spectrum ranging from formal to informal.











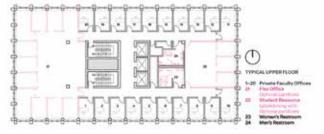


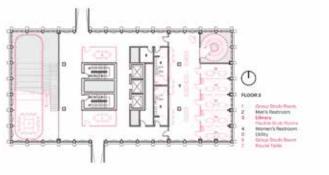


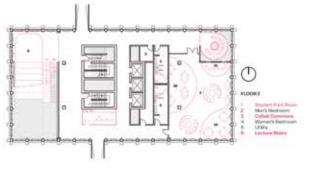




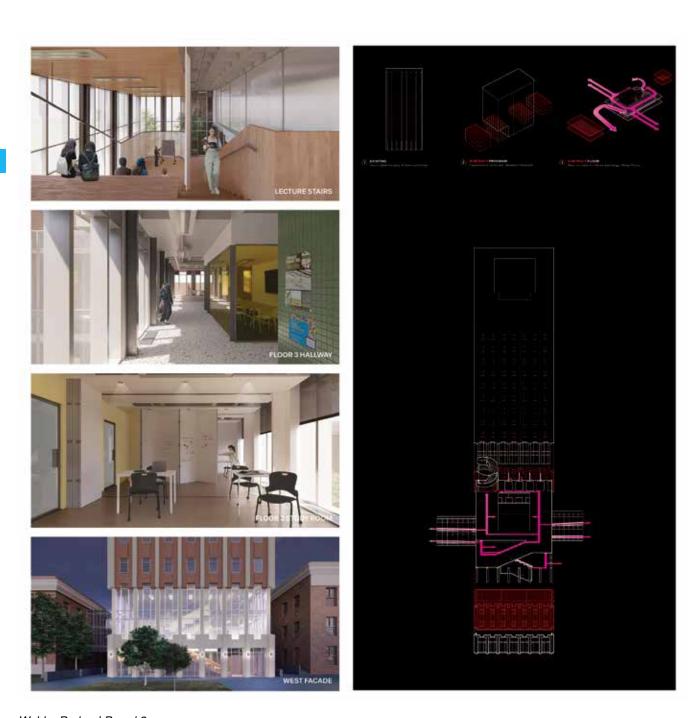


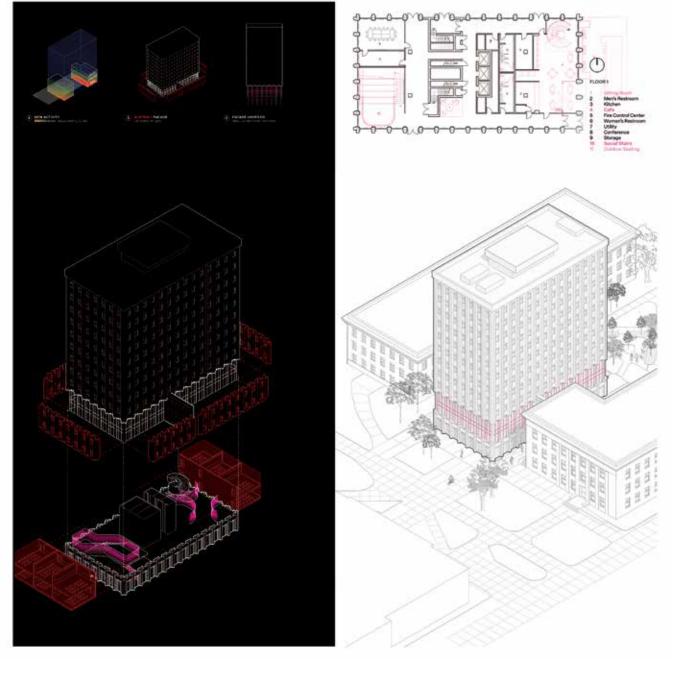






Wahl + Parker I Board 2





Wahl + Parker I Board 3

Wahl + Parker I Board 4

Honor

Low-Rise LNK

Luryn Hendrickson and Haley Herman Faculty mentor: Michael Harpster

In the Low-Rise LNK studio, a emphasis on high density, lowrise housing was encouraged. Our 2.25 acre site, located in the historic Malone neighborhood adjacent to UNL city campus, presented a clean slate where we were able to challenge typical zoning regulations and home ownership models.

A traditional apartment building achieves density through height, with a small building footprint. However, in the case of low-rise housing, density can be sacrificed due to economic and zoning constraints. Our design approach began by breaking apart the traditional, rectalinear apartment building, looking more specifically at user needs. We analyzed our users, the different unit types, and catered them to the needs of the community; that being partial rentership and partial ownership models. Once a series of apartments, co-op living spaces, and townhomes were designed, each individual unit type became a building. Looking overall at the site, each building was situated in a way that achieved high density while also creating pockets of green space that serve as community spaces on a larger scale. Each unit maintains a yard condition, which furthers community interaction through a land trust. While a rental unit may be located next to an owned townhome, the 2.25 acre site is leased to all. Owners lease the land below the structure they own, restricting gentrification of the neighborhood and increasing community connection. The entire site also restrains vehicular traffic and promotes walkability through rezoning to a community unit plan, allowing further freedom of design.

















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Jury comments: The jury applauds the varying scales of design and planning, from the urban condition of housing to the material resolution of the buildings and the exterior spaces-and the use of the two CLT's. The models and interior images successfully communicated the project's design intent and craft.





Boerner + Burress I Board 2



Boerner + Burress I Board 3



Boerner + Burress I Board 4

Merit

Benson Box

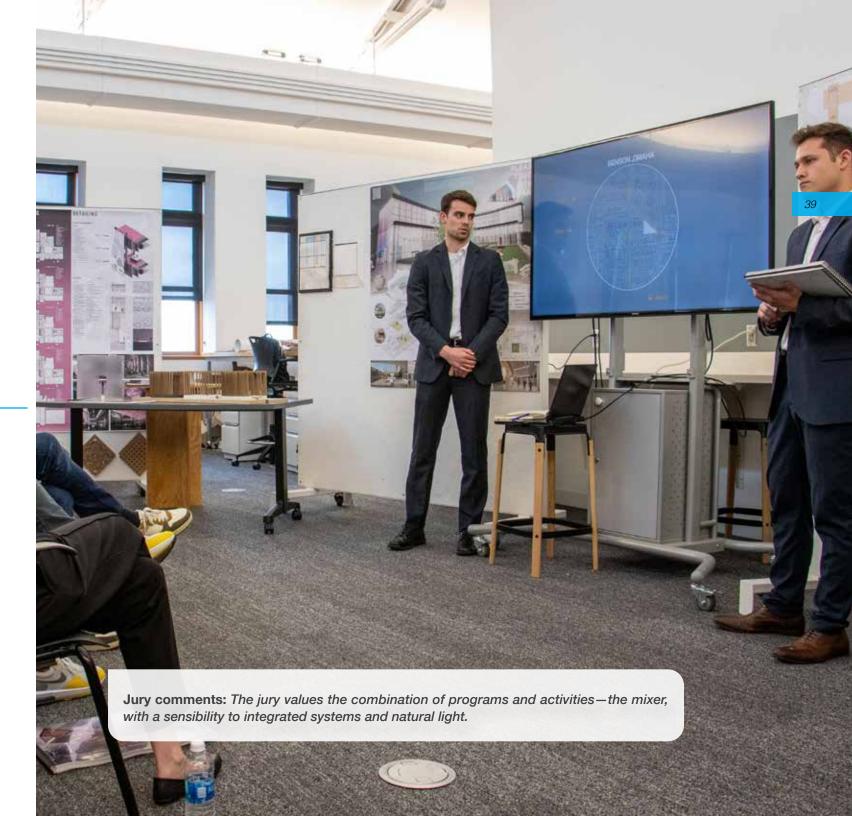
Nico Forte and Devyn Beekman Faculty Mentor: Ashley Byars and Ryan Hier

The BENSON_BOX is a market hall in the Benson neighborhood of Omaha, NE. The building will serve as a multi-level, multi-use maker/performer space for the community.

With emphasis on the process of making products that are sold and used under the same roof. This idea of relationship is also activated by the dwelling units provided to the marketeers to live, work and teach their talents. This cohesiveness is also evident in section. The building footprint is small in proportion to the site in order to maximize the green space and activate the transparency between programs. This benefits the community by providing a space of discourse to share products, talents and ideas.





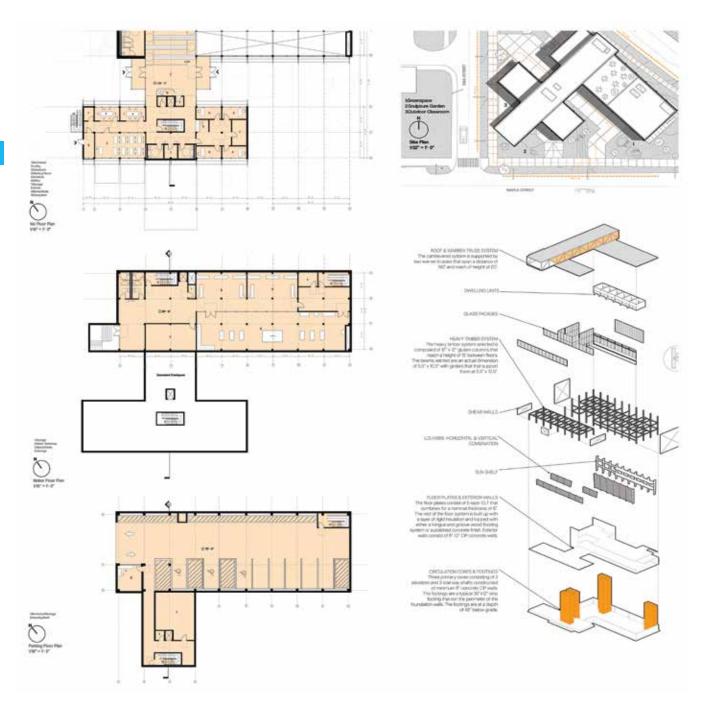




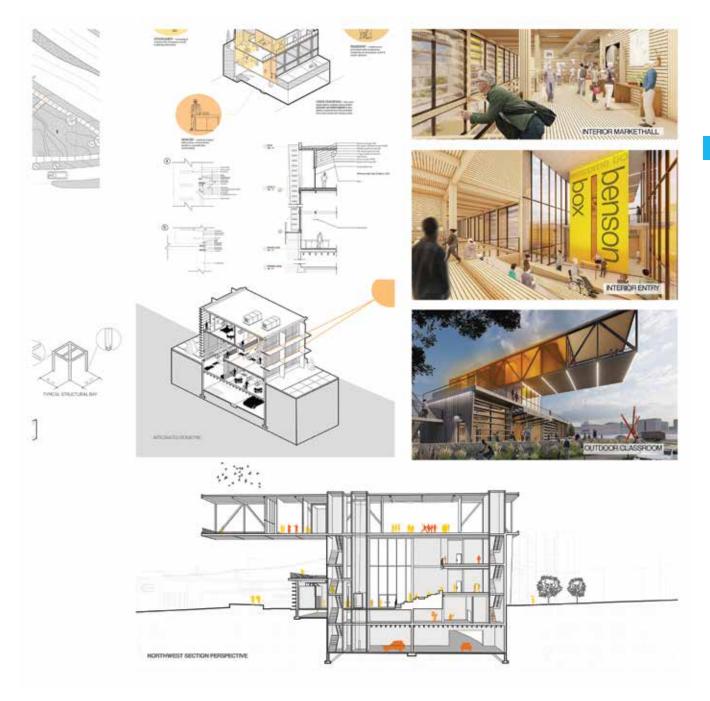
BENSON_BOX [NICO FORTE & DEVYN BEEKMAN] The BENSON_BOX is a market half in the Benson neighborhood of Omaha, NE. The building will serve as a multi-level, multi-use maker/performer space for the community. With emphasis on the process of making products that are sold and used under the same roof. This idea of relationship is also activated by the dwelling units provided to the marketeers to live, work and teach their talents. This cohesiveness is also evident in section. The building footprint is small in proportion to the site in order to maximize the green space and activate the transparency between programs. This benefits the community by providing a space of discourse to share products, talents and ideas.

Doerrfeld + Phillips I Board 1

Doerrfeld + Phillips I Board 2



Doerrfeld + Phillips I Board 3



Doerrfeld + Phillips I Board 4

Merit

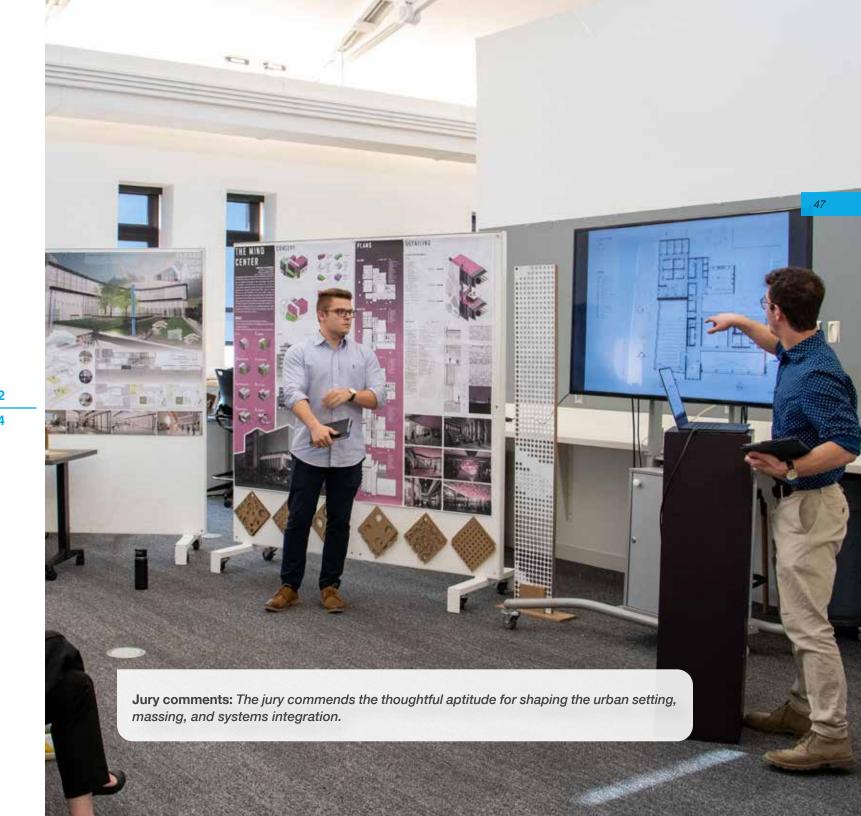
The Mind Center

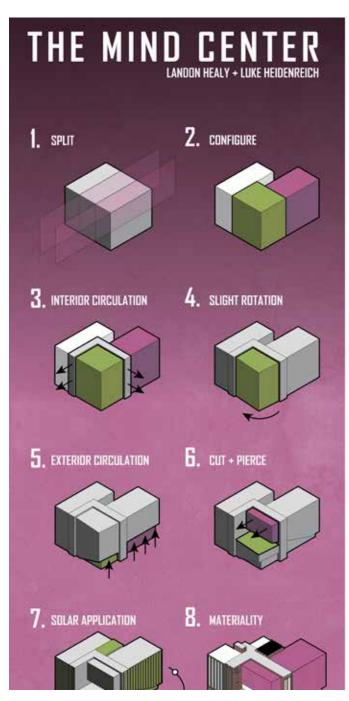
Landon Healy and Luke Heidenreich Faculty Mentor: David Newton

Innovation, or the ascension to it, has several avenues that are suitable for different individuals. However, the discovery of these avenues can only be achieved through an awareness of one's environment and the cause and effect on their decision making. The Mind Center allows an individual to be consciously observant of their own behavior and be present in their very own atmosphere. The environment an individual lives and learns in has several implications on both cognition and perception. Students, researchers, and more are constantly learning through their senses in seven different ways: visual, kinesthetic, aural, social, solitary, verbal, and logical. As a result, the mindset one has determines the psychological connections to each of these types of learning. Though each person is impacted differently on varying scales, minute development of self perception is enough to create new ideas and innovations. The Mind Center houses three atmospheres focused on learning and environmental perception. These atmospheres combined create an environment designed for innovation, creativity, and discovery.

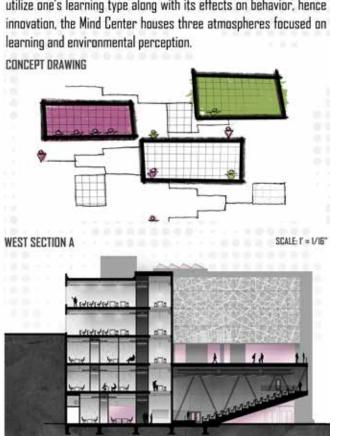




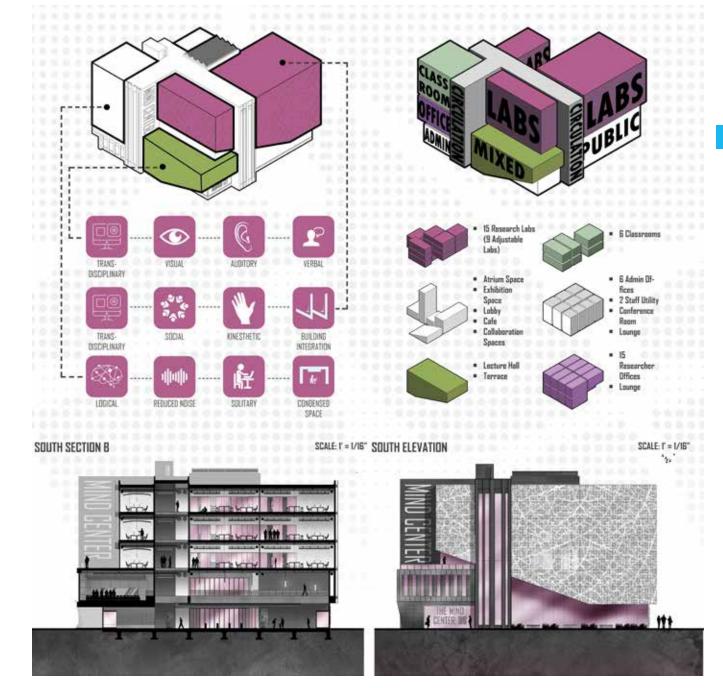


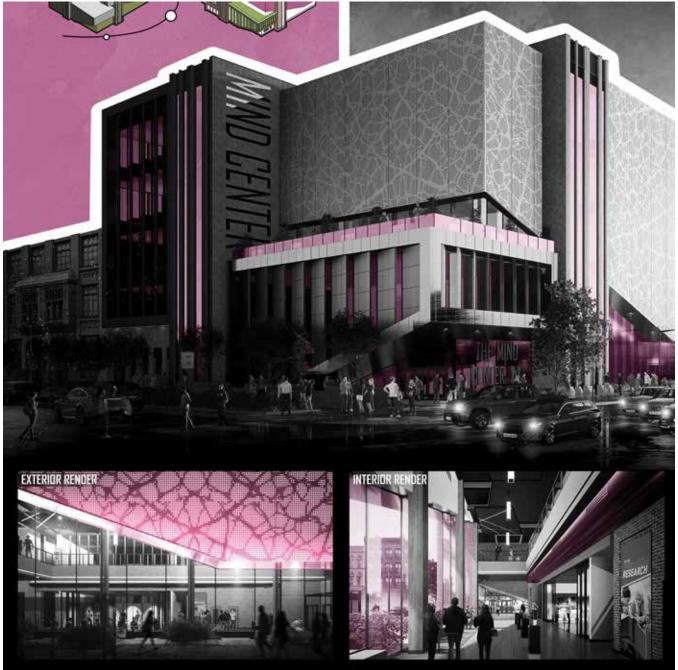


The Mind Center allows an individual to be consciously observant of their own behavior and impact on their surrounding environment and atmosphere. The environment an individual lives and learns in has several implications on both their cognition and perception. Individuals are constantly learning through their senses in seven differentways: visual, kinesthetic, aural, social, solitary, verbal, and logical. As a result, the mindset one has determines the psychological connections to each of these types of learning. This will be done by creating separate instances of cognition and perception development that foster innovation for both the university and the community. To utilize one's learning type along with its effects on behavior, hence innovation, the Mind Center houses three atmospheres focused on learning and environmental perception.

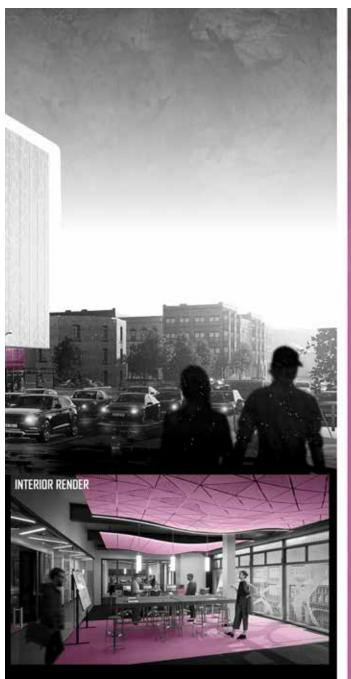


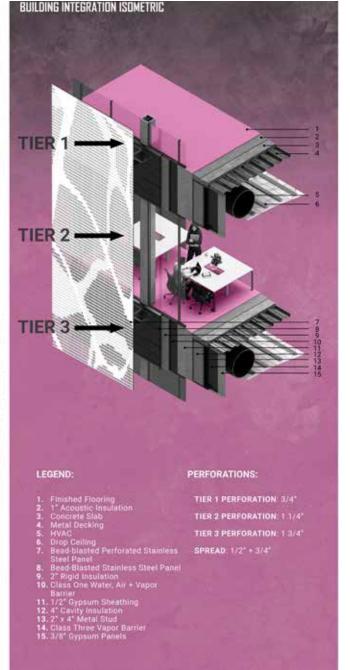
Krusemark + Kortenhof | Board 1 Krusemark + Kortenhof | Board 2





Krusemark + Kortenhof I Board 3





Krusemark + Kortenhof I Board 4

Citation

Please Touch the Art

Grace Carlson, Clara Hetherington and Sidney Renelt Faculty Mentor: Beau Johnson

The Sheldon Art Museum is a hub for creative expression. Behind each piece of art displayed and stored within the Sheldon, there was a unique and individualized process that occurred in order to express the message that each artist wanted to portray. The only part of this creative process that the viewers are experiencing, however, is exhibition. "Please Touch the Art" is an informal approach to taking in how art is traditionally observed and created.

Taking part in an individualized journey of the creative process, occupants of the space are encouraged to engage in art through a variety of different ways. Our addition aims to facilitate individualized creative expression, establish a creative community, and inspire people to partake in the creative process. It also serves to revitalize the sunken garden, an underutilized but unique space, into a creative hub that facilitates spontaneous interaction between occupants of the space. These goals help to facilitate an environment where creative expression can flourish, and individuality can prosper. Through colorful, immersive installations and spaces where creativity can be fully expressed, "Please Touch the Art" engages its occupants in the creative process so that they can view themselves as artists.

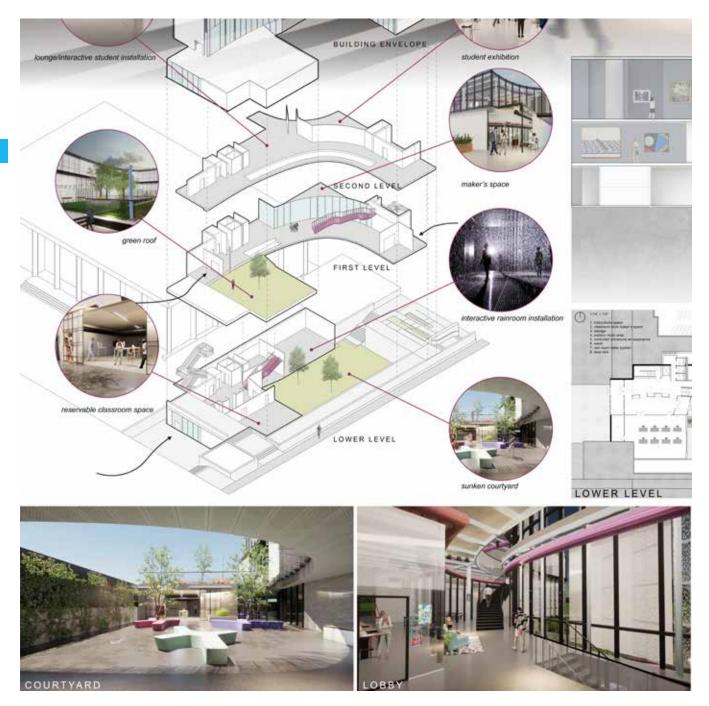




Jury comments: The project successfully creates amenable spaces, particularly the sunken courtyard and studios.

GRACE CARLSON CLARA HE "Please Touch the Art" is an informatraditionally observed and created. Talthe creative process, occupants of the through a variety of different ways. The and spaces where creativity can be functionally in the creative process so the companies of the creative process.

PLEASE CREATIVE EXPRESSION































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DESIGN STUDIOS

Ashley Byars, Lecturer Ryan Hier, Lecturer

* Nico Forte and Devyn Beekman | Merit

Lubna Al Sebaie Thinh Nguyen
Colin Balbach Renee Pasapera
Paulina Garcia-Medrano Steven Powers
Sarah Johnson Alissa Vlach
Caleb Mohnike Angela Vu
Abby Mowbray Trever Zelenka

Jeff Day, Professor of Architecture

* Elena Garcia Tapia and Brandy Nguyen | Excellence

lan Carroll
Sophia Gawrick
Hannah Gould
Mitchell Hill
Londell Stubblefield Jr.

Kael Jakub Ethan Watermeier Greta Krohn Allison Woodring

Michael Harpster, Professor of Practice | Honor * Luryn Hendrickson and Haley Herman | Honor

* Studio Finalist

Kate Brashear

Kade Jensen

Samantha Keetle

David Ortiz De la torre

Michael Rieder

Edgar Roman

Dylan Lambe

Nicholas Theoharis

Zade Miller

Mara Wasserman

Elizabeth Nielsen

Renee Zandt

Beau Johnson, Lecturer

* Grace Carlson, Clara Hetherington, and Sidney Renelt | Citation

Haleigh Carr Son Huynh, Son
Nick Carraher Nikita Mansinghani
Lauren Castaneda Elijah Schmit
Malik Darwish Aly Timmerman
Jampe Gergen Trent Weatherwax

David Newton, Assistant Professor

* Landon Healy and Luke Heidenreich | Merit

Stephanie Cabarcas Alex Martino
Oz Eckhorn Paul Mullins
Riley Jarosz Megan Pfeifer
Cody Kleinschmit Hayden Rech
Mia LeRiger Grant Wolfe



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