



BRAND DESIGN

➤ Master of Architecture

➤ Master of Science in Architecture Design and Research

➤ Master of Urban Design



ABOVE: "Speculative House, Garden + Landscape, v. 95" by Professor Perry Kulper.

OPPOSITE (ABOVE): The annual Student Show, which is held in Taubman College's studio space — the largest continuous space of any U.S. architecture school.

OPPOSITE (BELOW): Thesis reviews.

MADE AT MICHIGAN.

TO GET AN EXCEPTIONAL EDUCATION IN ARCHITECTURE, you must be part of a community of great minds who design in boundary-breaking, risk-taking ways. As part of the University of Michigan, Taubman College offers you an unmatched breadth of opportunity to become a leader who designs and creates better built environments for the greater good.

Taubman College is a place where we ask, "What if?" We experiment, look for alternatives, and explore how architecture can inspire, improve, and involve our world and society. Our faculty are celebrated practitioners and dedicated teachers who embrace progressive design as a vehicle for engagement and change. Our students bring diverse perspectives that will broaden your experience inside and outside the classroom. And the across-the-board excellence of the University of Michigan means that whatever your interests, you will learn from and with the best.

From the moment you join Taubman College, you also will be part of one of the world's largest, most diverse, and most passionate alumni communities. In corporations, nonprofits, and top firms around the world, "Go Blue" is a unifying statement of pride and recognition of excellence that will expand your network and open doors for a lifetime.

Taubman College gives you the freedom to find who you are as a person and practitioner in a community that challenges and supports each other. You will leave Taubman College with a career that was built at Michigan and made for anywhere and everywhere you want to go.



"You might get lost before you find yourself in the Architecture Program at Taubman College. Here, we will challenge you to be empowered by the experimental and the unknown. With degrees at both graduate and undergraduate levels, our program is committed to the idea that architecture is a cultural product that always negotiates a complex plurality of voices and ideas, as well as myriad social, political, and aesthetic concerns. Through the intellectual diversity of our internationally recognized faculty, and through the progressive spirit within our studios, we seek to model that plurality. At a time when the conventionalized practice of architecture is increasingly confronted by changing social, technological, and environmental contexts, we prepare students for their future careers by cultivating a dynamic educational environment where we challenge assumptions, debate ideas, and forge emergent design methods. We will prepare you for the ever-changing professional contexts of the future by exposing you to change. Taubman architecture graduates enter the profession charged with design tools and techniques, an understanding of architecture's histories and potential futures, and an aptitude for critical thinking that makes them agents of progress for a better, more just, and beautiful world."

— McLain Clutter,
Architecture Chair



WE SEE THE BIG PICTURE.



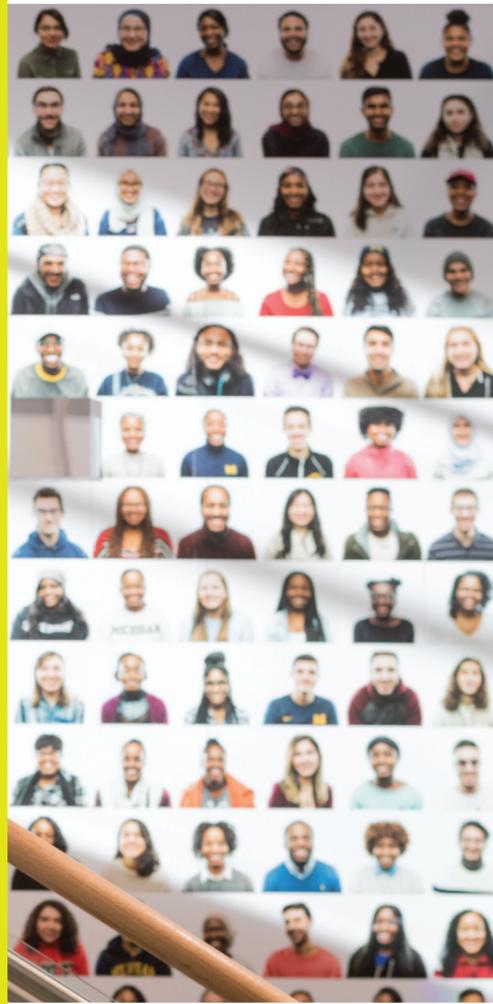
“The University of Michigan is truly a unique place with a unique mindset that disseminates out after people graduate. I’ve been amazed over and over again that when I meet another Michigan graduate for the first time and they find out that I’m also an alum, they bend over backwards to help me.”

— **ANDREA SPRINGER, M.S. '13**
Innovative Technology Leader at Stantec (Denver)

Springer plays the “what if” game for Stantec, a global architecture firm, by serving on a research and development team that examines how new technologies might benefit the company’s various business lines.



GLOBAL ACCESS.

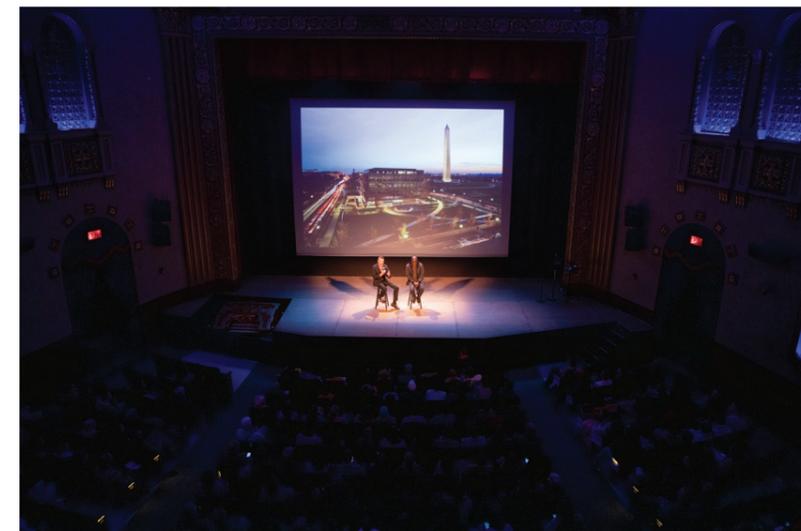


YOU WILL NOT JUST BE A STUDENT AT TAUBMAN COLLEGE. You'll be part of one of the world's best research universities, which attracts top student and faculty minds from all over the world. Wherever you go, you will be surrounded by excellence.

When great minds come together, you can understand deeper and think bigger. Your study of architecture can be your own — aligned with the reasons why you want to be an architect — because our faculty conduct research in many areas. They are excited to help you explore your ideas and interests, and their broad research lens results in cross-campus collaborations that enhance your education. In the 2018–2019 academic year alone, Taubman College faculty led conferences and symposia concerning future cities, equitable development, and life in the digital age. Furthermore, they partnered with the College of Engineering, School of Information, and Medical School, among others, on research at the intersection of architecture and many diverse disciplines.

Being part of a globally recognized university opens the world to you. The prestige of the University of Michigan brings U.S. presidents, Supreme Court justices, the New York Philharmonic Orchestra, the Royal Shakespeare Company, and other luminaries on the international stage to our campus. During the 2018–2019 academic year, two of the biggest names in architecture — Sir David Adjaye and MASS Design Group — taught studios at Taubman College. That's the power of a renowned institution like Michigan.

When you leave Taubman College, Michigan's global reach means you are part of an alumni network without equal. Michigan alumni are well-positioned, well-connected leaders who love the university and want to help you succeed. And they are engaged in the life of the college through speaking events, Career Fair, Spring Break externships, and more.



ABOVE: An exhibit at the University of Michigan's Trotter Multicultural Center celebrates the diversity of the student body.

LEFT AND OPPOSITE (ABOVE): Recent travel destinations for Taubman College studios include Morocco and China.

OPPOSITE (RIGHT): Sir David Adjaye discusses his design of the Smithsonian National Museum of African American History during a public conversation with Dean Jonathan Massey in Ann Arbor.

TAUBMAN COLLEGE DUAL DEGREES

M.Arch + M.S.
M.Arch + M.U.D.
M.Arch + M.U.R.P.

CERTIFICATE PROGRAMS

Healthy Cities
Real Estate Development
Urban Informatics

35

Electives per semester, on average, explore topics ranging from Race, Space and Architecture to Architecture of Eating

#1

Public research university in the U.S.

— National Science Foundation

97

University of Michigan graduate programs have top-10 rankings

10,000

Taubman College alumni

500,000

University of Michigan alumni



WE LEAD.

“I see myself as an architect, a designer, a social advocate and entrepreneur, and a visual storyteller. At Taubman College, I started to explore how design and social advocacy can work together to make spaces more inclusive.”

— CHRIS LOCKE, M.ARCH '16
Co-Founder of Designing in Color (Los Angeles)

Locke and a group of fellow architects launched Designing in Color to address the lack of representation of people of color in the architecture profession. In 2018, the group opened the National Organization of Minority Architects national conference with a workshop titled “For Us, By Us: Afrofuturism Recontextualizing Our Possible Futures,” in which they highlighted un-popularized historical achievements by black visionaries in efforts to project those ideas into the future.



PROGRESSIVE PRACTICE.

ARCHITECTURE IS A CONSTANTLY EVOLVING DISCIPLINE, and by attending Taubman College, you will build the confidence and skills to evolve your practice for ever-changing contexts. That's because you will gain a conceptual, aesthetical, technical disposition to push the profession forward — to be thinking about what could be different, what could be better, and why it matters. One reason is that your Taubman College community includes students from all over the world who bring widely differing opinions, inspirations, and experiences to the table. Our architecture community — M.Arch, M.S., and urban design students — works side by side in our studio, so every day you'll experience the teamwork and exchange of ideas that will help make you successful in your career.

In addition, our faculty excel at teaching the critical thinking skills that employers value. By helping you define problems and find answers, they are teaching you to be a resilient, confident, self-directed learner. But at the same time, you are not left on your own. Time and again, students say that our faculty's engagement with and commitment to the students is one of their favorite things about Taubman College. We think design education is a process of discovery in which faculty are engaged "guides" who work through ideas and strategies alongside students in studio.

At Taubman College, you will learn from the best. Our faculty don't just win awards, they win many different types of awards — meaning you will learn different disciplines, styles, and philosophies of architecture from teachers who are at the top of their game.

OPPOSITE: Cultural Exchange Center, Huangshan, China by Craig Borum / 2018 AIA College of Fellows Inductee and practicing architect.

BELOW: "La Voûte de LeFevre" by Wes McGee / MoMA/PS1 Young Architects Finalist.

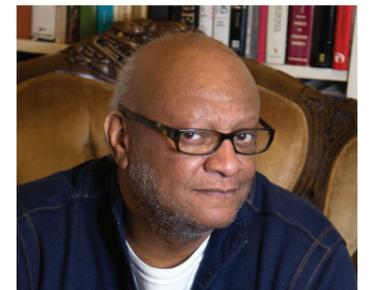


17

Taubman College faculty members have won the Architectural League Prize for outstanding designers "who are in their first decade of practice, including 2019 winner Cyrus Peñarroyo, 2018 winner Anya Sirota, and 2017 winner El Hadi Jazairy



"Lossy/Lossless" by EXTENTS, a design collaborative led by faculty McLain Clutter and Cyrus Peñarroyo. Peñarroyo received the 2019 Architectural League Prize.

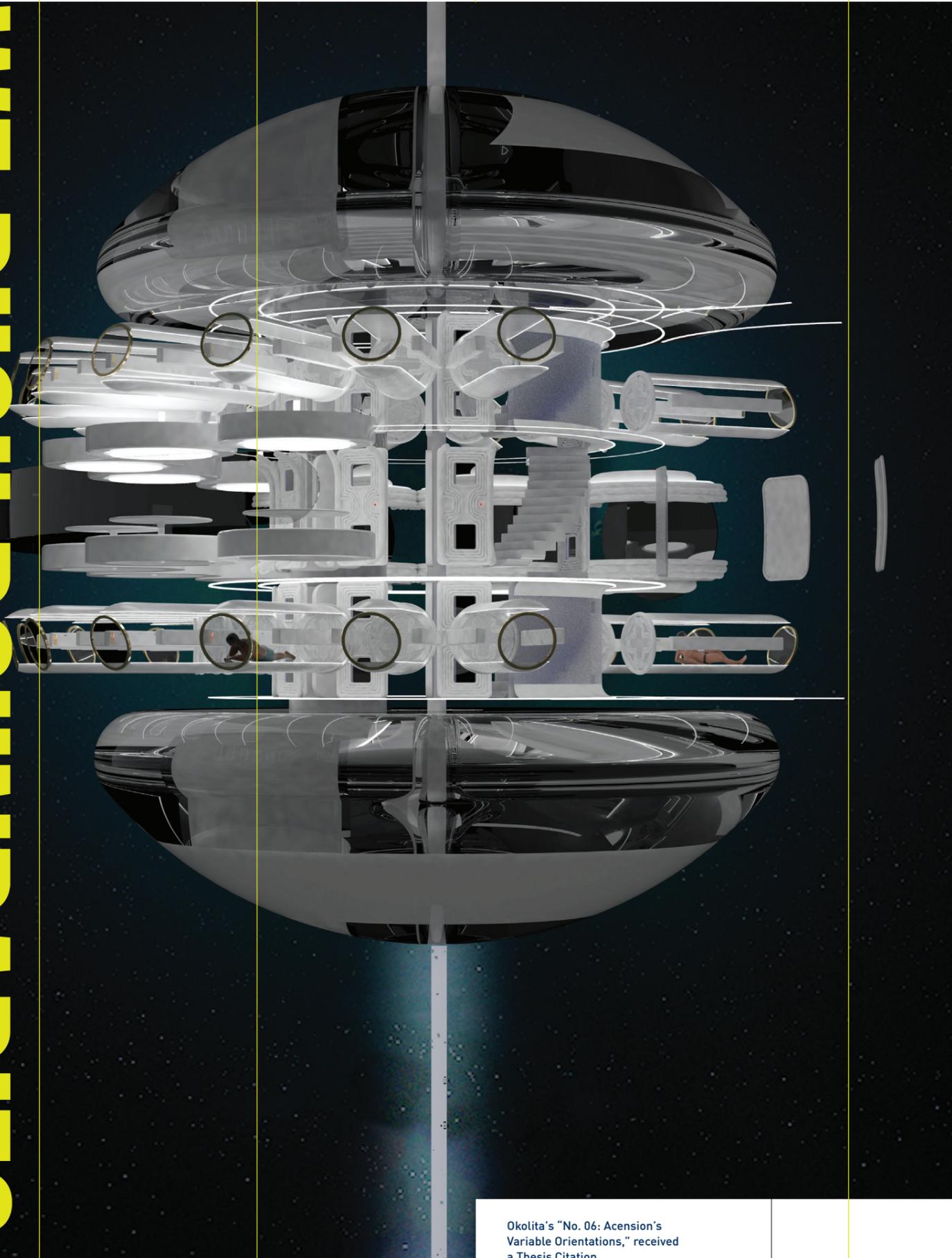


Craig Wilkins / 2017 National Design Award Winner



Sharon Haar / 2019 AIA College of Fellows Inductee

WE PUSH BOUNDARIES.



Okolita's "No. 06: Acension's Variable Orientations," received a Thesis Citation.

“Taubman College gave me a strong foundation in using systems thinking to solve complex design problems. My thesis seminar was called ‘Future Future,’ and we questioned the future of everything in architecture: of form, of systems, of program, and of practice in different possible scenarios. I’m passionate about asking these questions.”

— SAMANTHA OKOLITA, M.ARCH '17
Designer, Design Innovation Studio at WeWork (New York)

Okolita is part of a small collective of designers at WeWork, which has gone from startup to multibillion-dollar company in nine years. She and her team are using data analytics to design prototypes that keep WeWork innovative and to imagine the future of architecture, including how technology will continue to push the profession and the company forward. She previously was a designer at Bjarke Ingels Group (BIG), where she joined colleagues to build a large installation at Burning Man 2018.





AGILE MINDSET.

OUR DESIRE TO IMAGINE AND REIMAGINE THE FUTURE drives our experimental culture. And we believe that the only way to really experiment is to create that which we imagine. We will give you a solid foundation in architectural theory. But you also will put that theory into practice, while stretching its limits and exploring its alternatives.

Our faculty are active researchers who are diverse thinkers in architectural methods and practice. At the same time, you will learn from innovative early career architects who are fellows at the college, as well as Ph.D. students who are reimagining architectural theory and practice in their research. Grounded in our tradition as one of the country's first architecture programs, this infusion of emerging talent and embrace of experimentation ensure our approach to architecture education is always evolving.

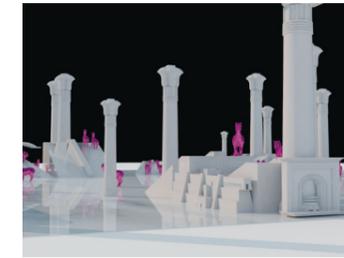
From wood and metal shops to industrial knitting machines and robotic fabrication and research, our technology will help your ideas become reality. Take advantage of our Digital Fabrication Lab (the FABLab), as well as university resources just across the street that include the Motion Capture Lab and Immersive Virtual Environment, the Environmental and Water Resources Engineering Lab, and the Engineering Research Center for Wireless Integrated MicroSystems. We incorporate technology into the curriculum as a teaching tool to prepare you for your professional careers and supplement classwork with software tutorials and workshops throughout the year.

Taubman College's fabrication lab, known as the FABLab, houses six industrial robots that allow students to work at a wide range of scales.



Practice Sessions

Part of a University of Michigan initiative that funds experimental teaching methods, Practice Sessions are immersive, four-day design charrettes that culminate in a juried review and exhibition. Your job during the Practice Session is to work in an experimental mode, where everything is subject to the pressures of practice on design.



Architecture Student Research Grant

Explore your ideas further through a grant competition for all Taubman College students. Your challenge is to develop projects that push the boundaries and possibilities of the discipline of architecture and discover new forms and methods of working, making, and representing.



Living a Digital Life

Michigan Meetings build on the university's tradition of encouraging interdisciplinary scholarship. Taubman College faculty Ellie Abrons, McLain Clutter, and Adam Fure led the 2019 Michigan Meeting, which asked, "What does it mean to be alive in the digital age?" As part of the conversation, they led a student exhibition and an online publication in collaboration with e-flux Architecture.



The Egalitarian Metropolis

Michigan-Mellon fellows at Taubman College and the College of Literature, Science, and the Arts are pursuing independent research projects at the intersection of architecture, urbanism, and the humanities, emphasizing how egalitarianism shapes metropolitan regions. A.W. Mellon Foundation grants fund the work.



Virtual Realities: Rendering Real-Time Environments

Students in this course produce real-time environments that are experienced with VR technology. At the end of the semester, the entire Taubman College community gives the products a try at an open house.



ACADIA

Each year, Taubman College students travel to the Association for Computer Aided Design in Architecture (ACADIA) conference, including the 2019 conference in Mexico City. ACADIA is an international network of digital design researchers and professionals; Professor Kathy Velikov currently serves as its president.

China's newest planned city will differ from its predecessors through its focus on sustainable development.

WE IMAGINE ALTERNATIVES.



“The curriculum showed me urban design from different points of view and disciplines, from planning and architecture to real estate and incorporating technology like GIS. The 10-month program felt like much longer because it was such an intense and diverse learning experience.”

— WILSON QIAN, M.U.D. '12
Senior Urban Designer and Project Manager
for Urban Design at AECOM (Beijing)

At AECOM, Qian is working on major transportation hubs and other urban regeneration projects within Beijing. He also is part of the design team for the Beijing Sub-Center, a new planned city whose focus on sustainable development will help alleviate Beijing's congestion and pollution. In addition, he is the delegated chief planner of Sanlitun Area, one of the busiest retail and commercial communities in Beijing.



Detroit Square

Architecture professors Anya Sirota and John Marshall and urban and regional planning professor Harley Etienne are part of the team that won an international competition in 2019 to design a new plaza connecting the area surrounding the Detroit Institute of Arts.



AS AN ARCHITECT, YOU WILL HAVE THE POWER TO INFLUENCE PEOPLE'S LIVES.

From the skylines of cities to the interiors of homes to the accessibility and functionality of offices, you will affect our relationship with our built environment. At Taubman College, people are at the center of everything we teach and learn because we are grounded in the University of Michigan's mission to promote the public good and are committed to improving life in the state of Michigan and beyond. We are thinking about how architecture can help solve complex challenges facing humankind, as well as how architecture can make life easier, more beautiful, and more engaging for a family, a neighborhood, or a community.

As a Taubman College student, your proximity to Detroit will give you immersive opportunities to explore how to create more inclusive and equitable communities. As just one example, one of our studios focuses on housing in Detroit and leverages longstanding relationships with the city's planning and development department to gain in-depth context surrounding issues like affordability and accessibility. But while our relationships in Detroit give you tactical experience, you won't only be working and studying there. Our studios travel the United States and the world, and the lessons and skills you'll learn in Detroit will help you no matter where you go. Students in recent studios have explored post-industrial sites in Pittsburgh and the Ruhr region of Germany, construction sites in Paris, and housing sites in China, giving you a global perspective on the issues.

Fertile Ground: Inspiring Dialogue About Food Access

Professors Geoff Thün and Kathy Velikov and Professor Anya Sirota are building installations for "Fertile Ground: Inspiring Dialogue About Food Access," a citywide exhibition in Jackson, Mississippi, that received a \$1 million grant from Bloomberg Philanthropies in 2018. Travis Crabtree, M.U.D. '16, and Salam Rida, B.S. '11, M.Arch '17, work for the City of Jackson and led the effort to secure the grant, including collaborating with their former professors.

Clastic Order / Post Rock

T+E+A+M, a collaboration led by four Taubman College faculty, is exploring how fragments of buildings (brick, concrete, glass, pipes, and fittings) can be melted with post-industrial plastic waste to create a new building material.

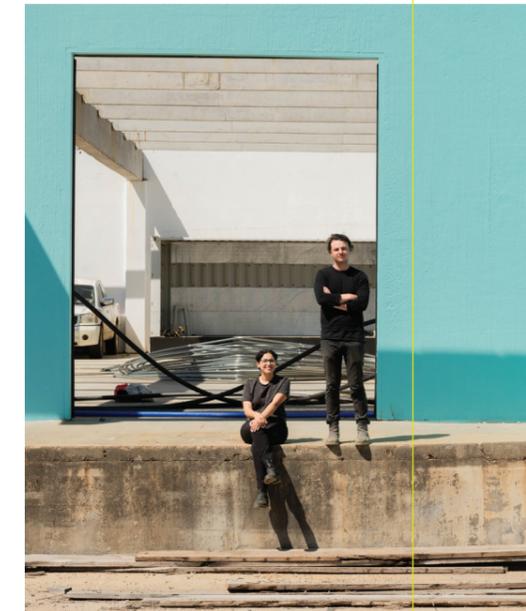


MASS Design Group

Students in a 2019 studio led by MASS Design Group, including its principal, Michael Murphy, focused on architecture's ability to change the impact and outcomes of mass incarceration by working with wardens, staff, and residents to reimagine the design of the Queensboro Correctional Facility in New York.



MAKE A DIFFERENCE.



Ocupação Anchieta Avança!

Professors Maria Arquero de Alarcón and Ana Paula Pimentel Walker led a joint architecture and urban planning course that worked with the Anchieta Occupation in Brazil. Students surveyed the community to prioritize needs and developed a multi-pronged plan that included design of a new cultural hub.

MADE AT MICHIGAN, BUILT FOR YOU.



AS A TAUBMAN COLLEGE STUDENT, YOU CAN BE ... YOU.

No one else has your exact experience, ideas, and goals, and that's exactly the way we like it. Our job is to help you unlock your potential and find your passion.

Along the way, our diversity of thought and opportunities will help you think differently and broaden your interests. We have the largest continuous studio space of any architecture school in the United States, so you'll work in an open space that mimics the environment you'll face in practice. You will build a unique camaraderie with your peers and be each other's frontline reviewers, idea exchangers, and cheerleaders. Together we will advance knowledge and bring out the best in each other. In addition, our faculty offices ring the studio space, which means they engage in spontaneous discussion and form ongoing mentoring relationships with students.

The studio culture at Taubman College is ...



"DISCURSIVE. The faculty work hard to encourage new ways of approaching and framing complex urban phenomena. Critical discourse happens both through strategic guidance via studio professors and within the cohort, where I've had the opportunity to collaborate with students in the M.U.D. program as well as students in the M.Arch program."

— Salvador Lindquist, M.U.D. '19

Built for You

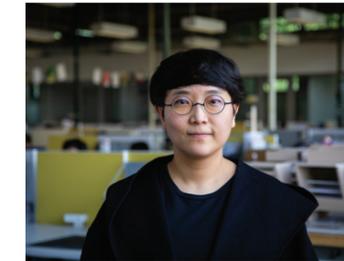
"FRIENDLY. I have made incredible friendships working alongside my peers, which improves the quality of studio life and my own work immensely. The professors always know how to talk through personal design processes and push boundaries at every step, spurring interesting design solutions that continue to become even more rich and well-considered."

— Benjamin Alexander, M.Arch '21



"DIVERSE. Students from different backgrounds and faculty researching various subjects together almost constantly question and redefine the realm of architecture. In addition, the faculty encourage us to explore a variety of visual mediums to communicate design ideas."

— Autumn Zhao, M.Arch '19



"EXPLORATIVE. My studio experiences have resulted in lasting friendships, a space to explore and shape my voice, and time to invest in projects and ideas I would not otherwise have the ability to do. As a dual-degree student, I have worked in the design space and the intensely academic space. Each brings a unique perspective and knowledge through policy, programming, process, building, and design. At Taubman College, I have the ability to access these interrelated fields."

— Gwen Gell, M.U.D./M.U.R.P. '20



"FUN. Lots of cool ideas for creative work came from fun conversations and experiences. It was less competitive and stressful than I imagined because sometimes jokes magically turned out to be inspiring 'what ifs,' and late-night laughs resulted in more productive hours. I just loved the atmosphere."

— Yixin Miao, M.U.D. '19



"UNCAGED. Taubman faculty don't believe in teaching within a box. They don't use restrictive teaching methods that give you a specific style or standard to copy. Rather their goal is to guide students' interests and push their potential. No idea is too far out; you simply have to lay out the plan for execution. A classmate told me, 'Taubman doesn't teach students just enough to get a job. Their style of teaching prepares students to become leaders in design and produce new architectural discourse.' I couldn't agree more."

— Charlene Hobbs, M.Arch '21



"TEAM-BASED. During the first day of our thesis studio, our adviser referred to us as a 'danwei,' or 'work unit,' and nothing held more true. The notion of the studio gave us a nervous excitement; the notion of being a unit — a team — gave us strength and reassurance. I left my studio knowing that my effort was truly seen; held implications outside of academia; and wouldn't have been possible without the feedback, insight, and collaboration of my peers."

— Natalie Leonard, M.S. '19



MASTER OF ARCHITECTURE

OUR MASTER OF ARCHITECTURE (M.ARCH) program is a studio-intensive degree that takes a critical view of design, theory, and production. You'll supplement your coursework with a diverse selection of electives in history/theory, criticism, structures, environmental and construction technology, urbanism, sustainable design, computation, and digital fabrication. Then you'll bring it all together in a design thesis during your final academic year.

Two-Year M.Arch

Our two-year, 60-credit-hour Master of Architecture program, which begins each fall, enrolls applicants who hold a bachelor of science degree in architecture or its equivalent. You must have a strong architectural design portfolio consisting of a minimum of four studios and previous coursework that fulfills the majority of required courses in the first year of our three-year curriculum.

Three-Year M.Arch

Our three-year, 105-credit-hour Master of Architecture program begins in late June and attracts applicants who received a bachelor's degree in architecture or an undergraduate degree in a discipline other than architecture. The first year builds a foundation that drives the following years, and then you'll join your peers in the two-year program for the second and third years. To be eligible for admission, you must hold an undergraduate degree in any field and have fulfilled the two required prerequisite courses: calculus and physics (with a lab). We also strongly recommend you take two studio art courses. We do not accept transfer credit for graduate level coursework from other institutions.

2-YEAR PROGRAM

Fall 1

515 Sustainable Systems
516 Representation
or 537 Fabrication
552 Architectural Design
(Institutions Studio)
Elective

Winter 1

516 Representation
or 537 Fabrication
562 Architectural Design
(Propositions Studio)
572 Architectural Theory and Critique
Elective

Fall 2

527 Integrative Systems
583 Professional Practice or Elective
660 Thesis Seminar
672 Architectural Design
(Systems Studio)

Winter 2

583 Professional Practice or Elective
662 Thesis Studio

OPPOSITE: "Territorializing Matter"
by Jad Ismail, M.Arch '19, for his
thesis studio.

RIGHT: Master of Architecture
thesis reviews in the Taubman
College Commons.

3-YEAR PROGRAM

Summer

402 Architectural Design
416 Design Fundamentals

Fall 1

314 Structures I
412 Architectural Design
(Form Studio)
413 History of Architecture
417 Construction

Winter 1

324 Structures II
422 Architectural Design
425 Environmental Systems
Architecture History Elective

Fall 2

515 Sustainable Systems
516 Representation
552 Architectural Design
(Institutions Studio)
583 Professional Practice or Elective

Winter 2

537 Fabrication
562 Architectural Design
(Propositions Studio)
572 Architectural Theory and Critique

Fall 3

527 Integrative Systems
660 Thesis Seminar
672 Architectural Design
(Systems Studio)

Winter 3

662 Thesis Studio

RECENT TAUBMAN COLLEGE ELECTIVES

Advanced Lighting
Architect as Planner/Developer
Building Ecology
Building Systems +
Energy Conservation
Computer Applications in ET
Concrete Structures
Detailing
Digital Fabrication
Environmental Design Simulation
Frame Structures
Generative Design Computing
History of Building Technology
Network City
Renaissance History
Sociocultural Issues in Planning
and Architecture

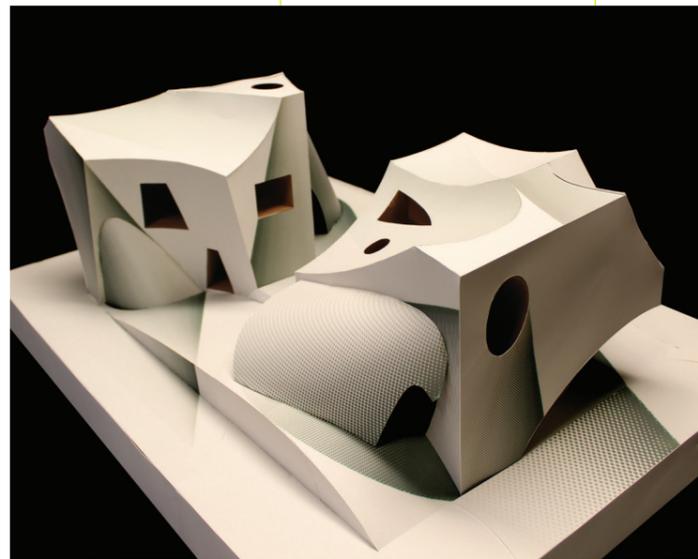


Learn more:
[taubmancollege.umich.edu/
architecture/degrees/
master-architecture](http://taubmancollege.umich.edu/architecture/degrees/master-architecture)

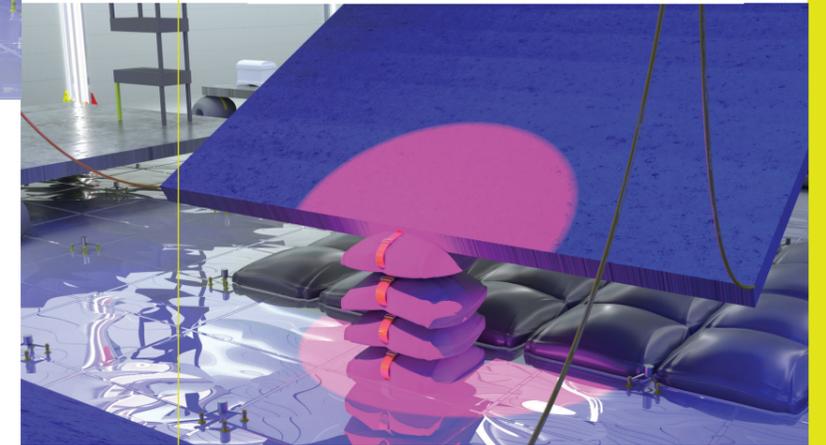
ARCH 412: FORM



For his project, **"form_image,"** John Vieweg created a sculptural massing by aggregating geometric primitives. This massing is then carved, producing exterior areas of occupation. Interior voids are formed through geometric subtractions that maximize usable space and minimize poche. The resulting construct is then texture mapped with an image of subtracted forms to reveal the nature of the rooms inside.



In **"Evolution of Cones,"** Maggie Cochrane developed a logic of boolean intersections and subtractions from boxes and cones in order to create occupiable spaces. The resulting dwelling houses six people with shared living spaces. After the massing was finalized, the same shapes were used to map images on the interior and exterior skin of the building. The image mapping follows the shapes as they emerge from the ground on the exterior, and mimics light patterns that come in through the windows at different times of day on the interior.



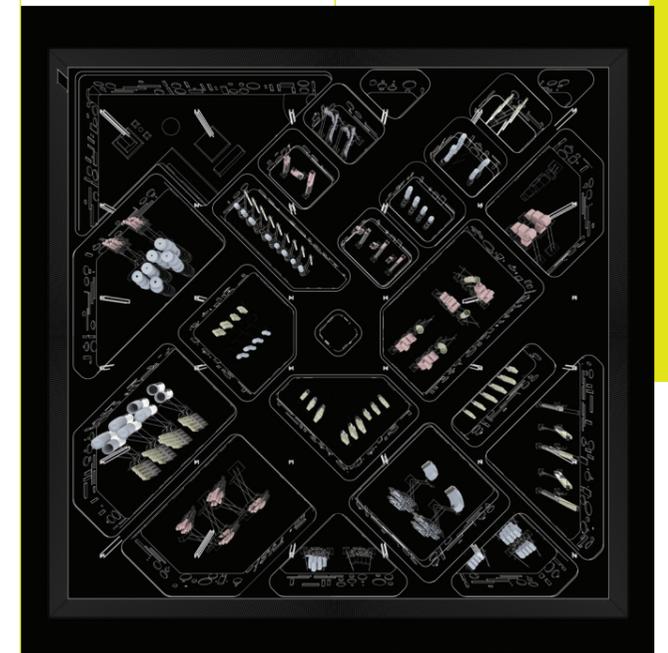
In **"Hold up,"** Alaina Gentles and Kei Wing Wong upscaled a retail environment by mimicking a garage sale as a new way of selling, display, and entrepreneurship. Three rings delineate private and flexible space, while the facade is controlled by a system of moving parts (garage doors) that roll on a full 180-degree track. The garage doors provide an open retail experience or can close to showcase an extensive interior display.



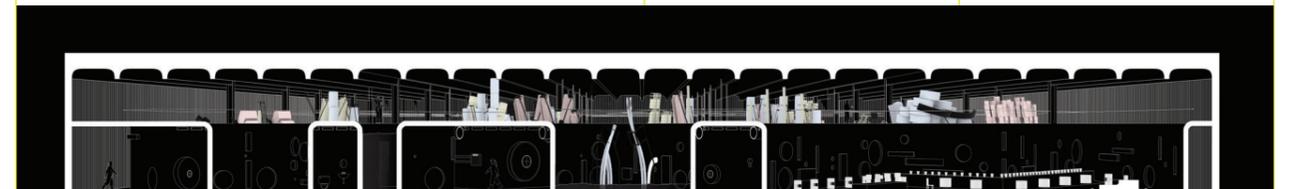
ARCH 442: SITUATIONS

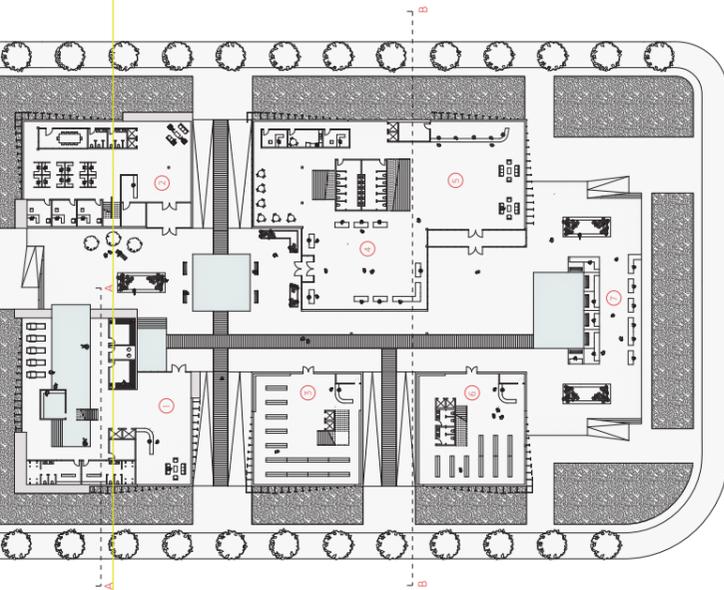


"Chicago Flagship Store," by Waylon Richmond and Kristina Cantarero, challenges preconceived associations concerning black rubber as a material, and normalizes and modernizes the aesthetic. Seamless black rubber covers an inventory of plastic domestic items such as a wristwatch, utensils, buckets, photo albums, and toys. The project composes the back and front of house, brand animations, and two characters alongside an avatar representing the aura of a plastics company.



MASTER OF ARCHITECTURE STUDIOS





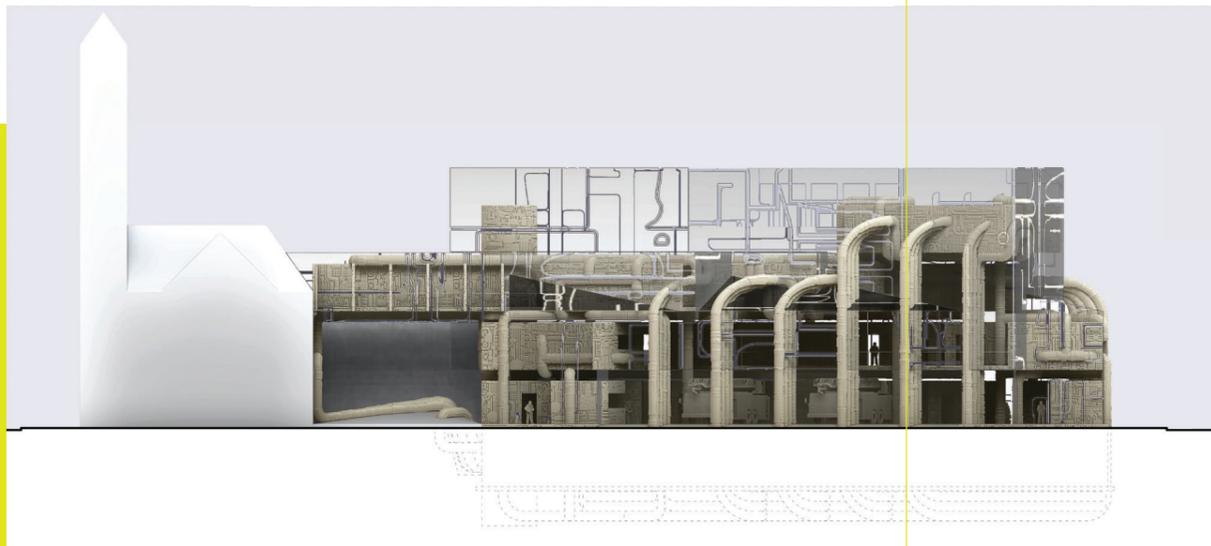
ARCH 552: INSTITUTIONS ↓

In **"104 Monitor Street: Courtyard Collections,"** by Lucas Rigney, the sound of running water leads you through concrete cavities to a reflecting pool. Next to the pool is a bench where you sit, watching people enjoy an outdoor farmer's market. You notice this market extend within the building and you follow it inside. You move around light shafts guided by wooden beams from above, arriving at your destination. From an office desk, a study room, a bookstack you notice the undulating louvers whose gradient pattern opens to show a city. Tired at the end of a long day, you finally walk to the bathhouse and wade into steaming water. Here you find others talking, relaxing, gathering. This building is a place of calm, a place of collection.



MASS Design Group asked students to imagine what it would mean to have spaces that represent America's goals for pursuing justice. Taking the Queensboro Correctional Facility in Long Island City, students experienced design practice as collective action and immersed themselves in a co-design process with incarcerated residents. **"Transgressing Dichotomies,"** by Rinika Prince, blurs the spatial and ideological boundaries in the existing facility by focusing on the idea of programming, the architectural form, and the facade as a means of this softening approach. The project is guided by the understanding that a correctional facility at the very end of a person's incarcerated life has the potential to intimately influence one's outlook and future trajectory.

"Firestation," by Ian Kemler, questions who and what is allowed to be represented in institutional buildings through the design of a new fire station in Ann Arbor in which infrastructure, ornament, and occupant are all interspersed and presented as part of the public image of the building. To do so, the project intersects the representational milieus of Beaux-Arts and modernist buildings. Borrowing the notion of representation through a system of ornamentation from the Beaux-Arts, and modernism's idea of transparency revealing the inside of a building as image of the outside, this project creates states of ornamental transparency and transparent ornamentation in which building and occupant are confused.



↑ ARCH 562: PROPOSITIONS ↓

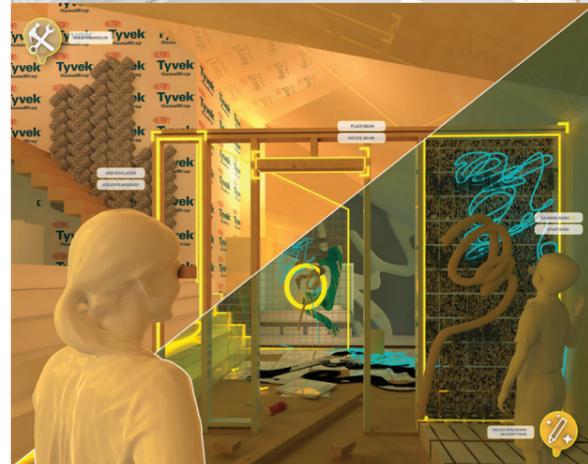


Students collaborated with leading French-based construction company Vinci Construction to build a deep understanding of historical precedents in prefabrication and current day, state-of-the-art building systems, in American and European contexts. In **"More with Less,"** Lovejeet Gehlot, Shahryar Beyzavi, and Austin Wiskur formulated a design-to-production strategy to provide affordable and sustainable housing solutions for residents. They achieve "more" by re-aligning the core wet walls on all units, allowing them to alternately stack units and creating more open space for the tenants — a hassle-free process that cost "less" for the construction team, which could be repeated in other sites. Clément Blanchet, principal of Clément Blanchet Architecture, co-taught the studio.

ARCH 672: SYSTEMS ↓

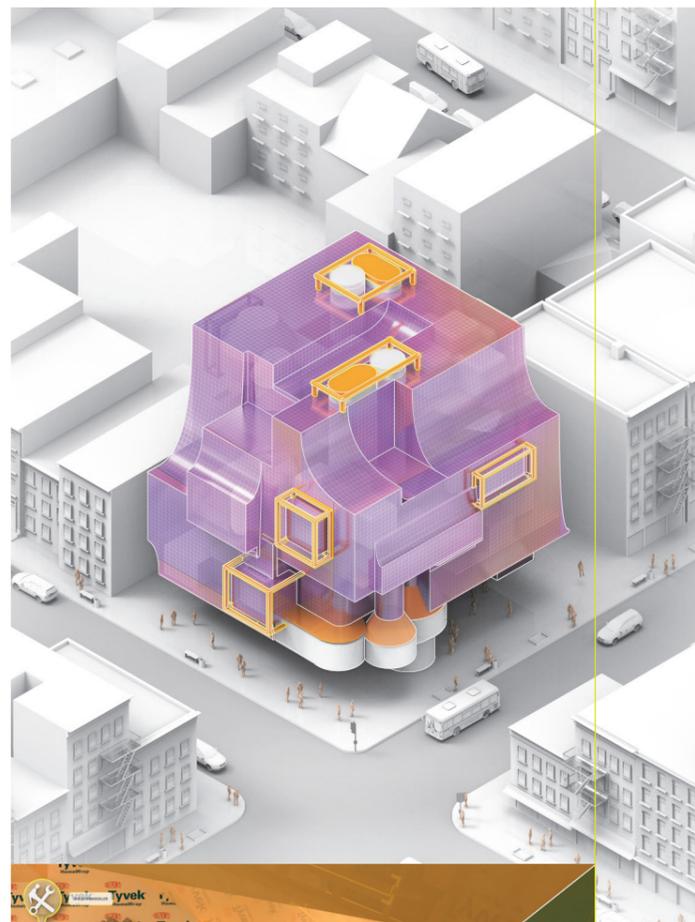


In the Age of the Cyborg, technological advancements will create more leisure time, which will force us to reconsider how we use public space. Public space will become the center of our daily activities. In **"The Matrix,"** by Andrew DeVares, Ziyuan Feng, and Yuanzhao Wang, the pyramid attempts to accommodate this societal shift by both attracting the public with its grand, gestural form, and by carving an atrium out of its center that holds mixed-use "pods" that are surrounded by a projection machine. This allows the environment of the atrium to infinitely transform and enables man and machine, public and private, physical and digital, to beautifully collide.



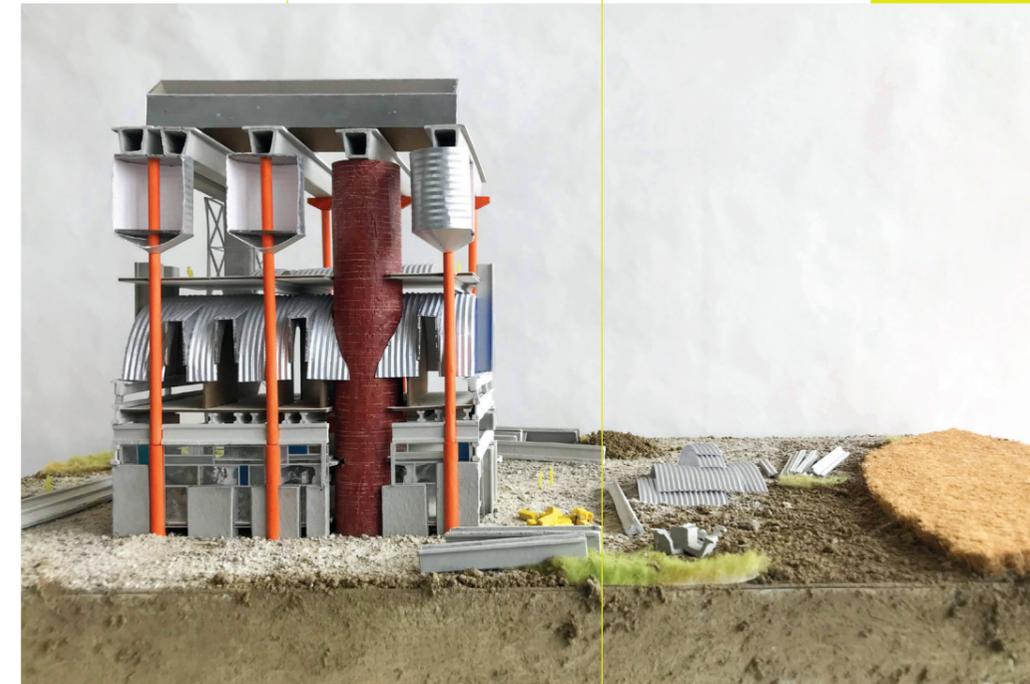
ARCH 662: THESIS ↓

In **"Augmented Collectivity,"** Gabriela Alvergue explored the ways in which the simultaneous emergence of new co-living trends and digital technologies that change the social dynamics of domestic space have been mutually formative and complexly interrelated. Her proposal explores merging these two trends by creating a new building typology that blends digital spaces of interaction with physical ones. With the use of augmentation and adaptation, she seeks to disrupt social boundaries with the inclusion of Augmented Reality (AR), kinetic spaces, and material manipulation in developing a mid-rise residential building in 2025.



In studying, analyzing, and recreating castles, students searched for a typological foundation of a contemporary architecture that is simultaneously real and fantastic. In the fall, students looked at castle examples from a range of sources; in the winter term, they developed their final thesis projects as a "castle" building. **"Castle Grange,"** by Nathan Echstenkamper, is located in the plains of Nebraska. The project imagines Interstate 80, which bisects the state, as a modern trade route, so the tower house style of Castle Grange mimics those that served as agrarian bulking-points along trade routes through the medieval countryside.

2019 Overall Master of Architecture Thesis Prize Winner.



↑ ARCH 662: THESIS ↓



"Cooperative Cache," by Liz Feltz, obfuscates one's identity from various modes of personal data collection through the distortion of household products and systems. By defamiliarizing common products and systems she creates an experimental living community of residents who are interested in utilizing digital technologies while avoiding commoditization through personal data collection. Within the existing structure of the big box retailer Sears, areas formerly designated for consumption become spaces of collectivity. Instead of filling the space with household products, it is filled with people who wish to avoid such a label.



M.S. THESIS REVIEWS

MASTER OF SCIENCE

THE MASTER OF SCIENCE in Architecture Design and Research (M.S.) is a 10-month, post-professional degree featuring a concentration in Digital and Material Technologies. Our program is particularly appropriate if you have a B.Arch or M.Arch degree (or an equivalent degree in a related field). Through the M.S. program, you'll invest in the technologies, materials, and production logics that are most drastically shaping and challenging our built world and its respective industries. In 2019, the program won the Innovative Academic Program Award of Excellence from the Association for Computer Aided Design in Architecture (ACADIA).

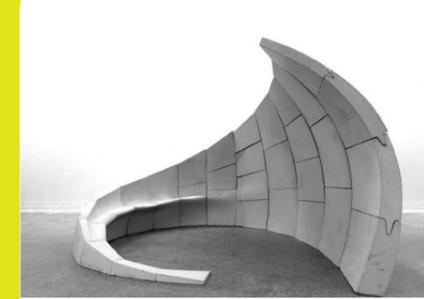
The program will immerse you in research in advanced fabrication techniques, digital design, and material systems. You'll explore the relationship to digital and material design and output so you can pursue architectural innovation within a context where design, composition, and modes of production for scales from wearables to buildings have radically changed due to an increasing sophistication and pervasiveness of computationally driven design and fabrication technologies. As a result, you'll be ready to pursue research and entrepreneurial practices, a career in the academy, or to expand your architectural practice.

MASTER OF SCIENCE

Summer
700 MS Practicum
715 MS Proseminar

Fall
701 Theories in Digital and Material Technologies
702 Robotic Engagement
703 Virtual Engagement
707 Material Engagement
708 Systems Engagement
Elective or Cognate

Winter
739 MS Capstone
Elective or Cognate
Elective or Cognate



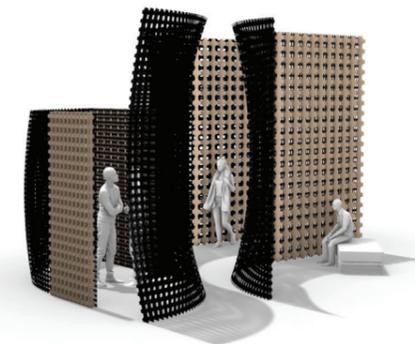
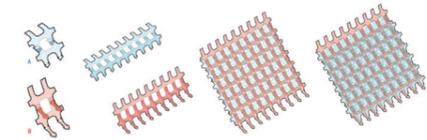
ARCH 662: THESIS - CONCRETE LABOR

"**Precarious Stand,**" by Jinhui He and (Sophia) Xiaojie Cao, is a dry-fit masonry system that uses centroids and self-weight to balance the assembly of the units to achieve cantilevering without the use of scaffolding. The work highlights how digital technology could redefine how we work with concrete and how different forms of labor could be re-inscribed in the design of form-work for casting. **2019 Super Jury Selected Thesis Work.**



ARCH 703: VIRTUAL ENGAGEMENT

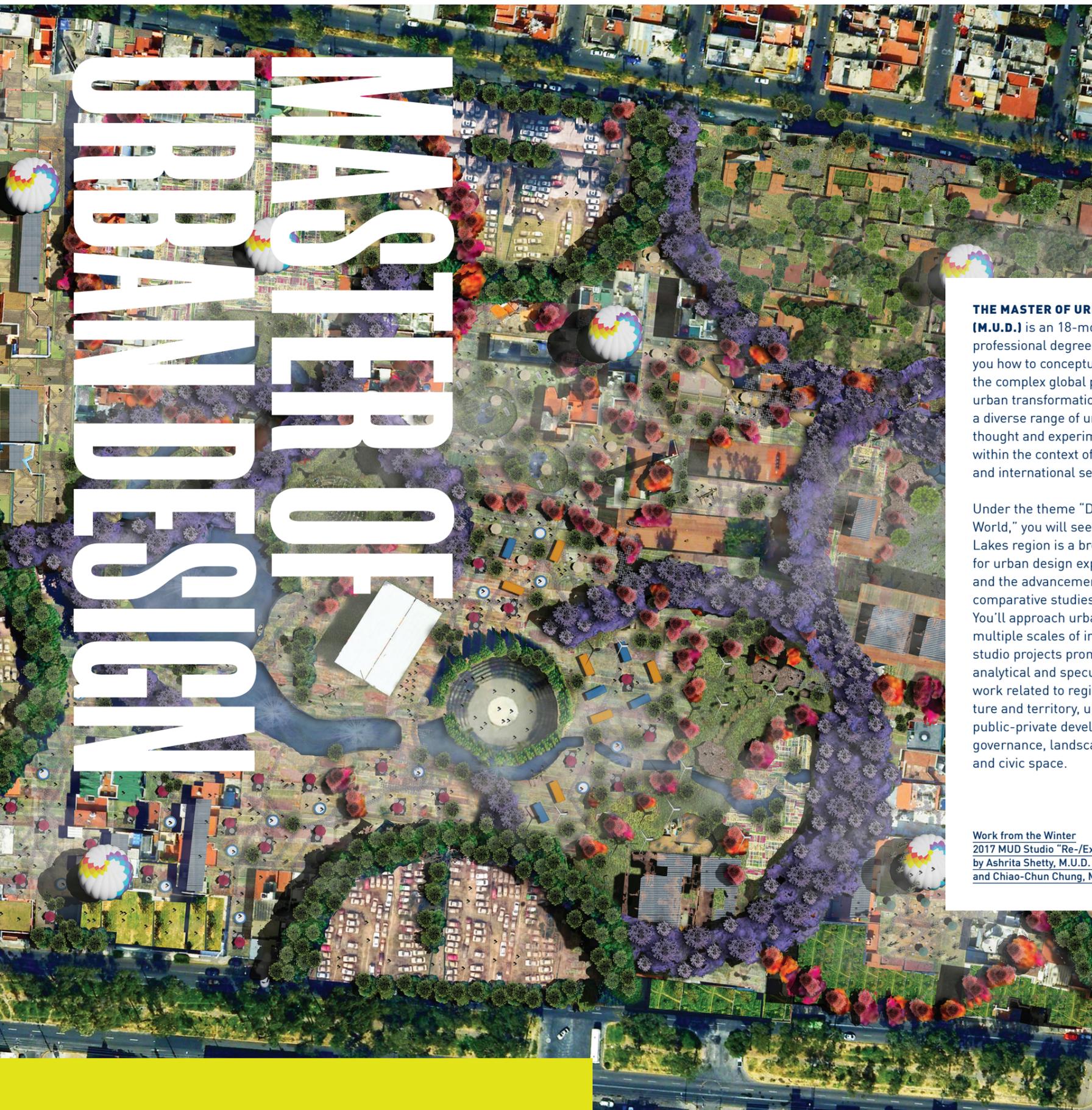
"**ARBS - Augment Reality Bending Shell,**" by Shan-Chun Wen, Yi-Liang Ko, Maryam Aljomairi, Ester Lo, and Apoorva Jalindre, utilized hologram imaging as a guide for the fabrication process of an active bending linear shell. The team used the HoloLens to promote a rapid and efficient technique of assembly, one that eliminates custom jigs and fixtures. In this project, the virtual guides were necessary due to the complexity of the design pattern and the nature of the material (PEX pipe). The projected 3D design viewed through the HoloLens eased the fabrication process and created a seamless workflow between digital design and physical assemblies such as realtime 3D simulation of the bending structure, alignment, and positioning of the individual elements, and realtime curvature measurements without the use of customized tools.



ARCH 709: ADVANCED PROTOTYPING

Sir David Adjaye, one of the most celebrated architects of his generation, co-taught a 2019 studio on the creation of silence. "**Acoustic Geometry,**" by Joon Kang and Misri Patel, studied the interdependence between geometry-topology of the surface and the acoustic quality of a material. It explored the multifaceted drape-like nature of felt and structural plywood to form a screen that morphs the behavior of sound. The proposed composition of quarter circles (felt) and straight lines (plywood) heightens the experience of transition both visually and acoustically around the periphery but reduces as one approaches the core to create an inward-looking space. It interprets the theme of Silent Screen as a transition space that amplifies and enhances the metamorphosis nature of space.

Learn more:
taubmancollege.umich.edu/architecture/degrees/master-science-architecture

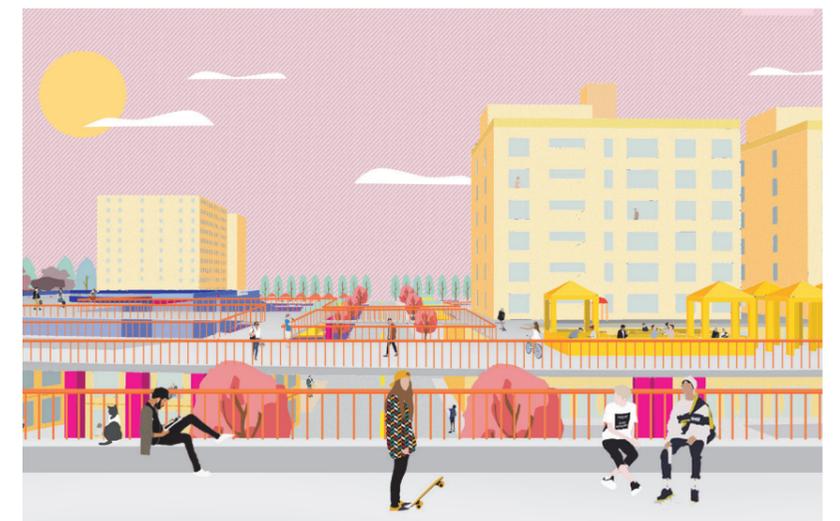


MASTER OF URBAN DESIGN

THE MASTER OF URBAN DESIGN (M.U.D.) is an 18-month post-professional degree that will teach you how to conceptualize and shape the complex global processes of urban transformation. We address a diverse range of urban design thought and experimentation within the context of national and international settings.

Under the theme "Detroit and the World," you will see how the Great Lakes region is a breeding ground for urban design experimentation and the advancement of global comparative studies in urbanism. You'll approach urbanism through multiple scales of inquiry with studio projects prompting both analytical and speculative design work related to regional infrastructure and territory, urban housing, public-private development, urban governance, landscape processes, and civic space.

Work from the Winter 2017 MUD Studio "Re-/Ex-Ejido" by Ashrita Shetty, M.U.D. '17, and Chiao-Chun Chung, M.U.D. '17.



MUD 712: URBAN DESIGN STUDIO

"Interjections," by Shourya Jain and Jing Yang, draws on observations around intersections in Queens, interpreting different space-use scenarios that emerge around highway systems, and applying these observations to Banglatown in Detroit. The main design concept is that the highway divides land into a heterogeneity of parcels, and those parcels are suited to host a heterogeneity of building types that welcome a heterogeneity of publics. In this way, this project becomes most interested in the borough's ability to host both automotive and pedestrian-based publics, or suburban and urban development models.

ARCH 562: PROPOSITIONS



Imaging the Urban Water Commons: Ahmedabad and the Sabarmati River: Students investigated the entanglements between the Sabarmati River in India and the City of Ahmedabad, and projected new narratives learning from the histories and stories around this contested relationship. A former perennial river, the Sabarmati is today dammed, channelized, and refilled with the mechanized waters from the Narmada River. The recent Waterfront Development Project has built stasis and real estate value in formerly floodable grounds, home to most-vulnerable citizens who are now displaced elsewhere. Students envisioned

alternative, more just, and inclusive futures, formulating research design and developing complex urban proposals that integrate architecture, landscape, and urbanistic concepts across multiple scales. Students traveled to Ahmedabad and participated in the Vastu-Shilpa Foundation's International Habitat Design Studio.

MASTER OF URBAN DESIGN

Fall 1
712 Studio I*
713 History of Urban Form
714 Representation
Open or Directed Elective**

Winter
722 Studio II*
715 Theories and Methods of Urban Design
716 Urban Economics, Finance, and City Making
Open or Directed Elective**

Fall 2
732 Studio III*
717 The City and Urban Design: History, Movements, Policies and Outcomes
Open or Directed Elective**
Open or Directed Elective**

*At least one studio to have international focus

**Directed Electives (minimum one from each category): 1) Ecology, Landscape, Sustainability, 2) Policy, Law, Institutions

Learn more: taubmancollege.umich.edu/architecture/degrees/master-urban-design



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