Master of Architecture & Master of Science in Architecture

Graduate Architecture Programs

College of Architecture & The Built Environment
Welcome!

This is an introduction to the Graduate Architecture Programs at Thomas Jefferson University in Philadelphia

In this presentation we will review:

• A Program Description
• The Plan of Study
• Graduate Programs
• Outcomes
• Facilities & Career Services
• Professional Associations
• Samples of Student Work
• Success Stories
Please email us with any questions or requests as these are exciting times.
Jefferson East Falls Campus in Philadelphia

Locational Advantage

- Green campus, close to Center City and many amazing communities
- Strong relationships with the community and local industry partners
- Philadelphia is our living urban lab
College of Architecture & The Built Environment

8 Grad, 5 Undergrad & 2 On-Line Programs

• Balance between theory and practice, design excellence and making
• Unique combination of disciplines = interdisciplinary collaboration
• Preparing future leaders in their fields
• Core Values  Sustainability  Social Equity  Design Excellence
College of Architecture & The Built Environment

Nexus Learning: A Core Teaching Value

- Active, Collaborative
- Real-World Learning
- Infused with the Liberal Arts / Hallmarks

Emphasis on Developing
- Curiosity and Confidence
- Empathy and Collaboration
- Initiative and Ethical Reflection
- Contextual Understanding/Global View
In Good Hands

Highly accomplished faculty

- Award winning teachers, researchers, and practitioners
- High number of licensed professionals
- Balance between full-time and part-time instructors
Faculty Research

- Smart and Healthy Cities (E. Stach, K. Ku)
- High Performance Buildings, Façade Technology (J. Doerfler, E. Stach, M. Gindlesparger)
- Air Quality + Breathing Wall Systems (A. Messinger, M. Gindlesparger)
- Parametric and Computational Design (K. Ku, Loukia Tsafoulia)
- Building Envelopes & Textiles (K. Ku)
- Lighting Design (L. Baumbach, D. Kratzer)
- Humanitarian + Public Interest Architecture (C. Harnish, K. Douglas, D. Kratzer)
- Park-in-a-Truck (K. Douglas, M. Tucker)
- Design Informatics (K. Ku)
Lab For Urban and Social Innovation (LUSI)

- Director: Professor Kim Douglas
- Faculty: C. Harnish, D. Kratzer, S. Frosten, M. Tucker

- Research and design
- Community engagement with human-centered design methodology
- Partnership with Philadelphia Collaborative for Health Equity
- Park-in-a-Truck Program
Malawi Center for Health & Design

- Director: Professor Chris Harnish
- Design-Build
- Malumu Hospital in Blantyre / Masterplan and Buildings
- KZH Hospital collaboration in Lilongwe
- Collaboration with Sydney Kimmel Medical College
Center for the Preservation of Modernism

- Director: Professor Suzanne Singletary, PhD
- Research, Archive, Symposia, Publications
- Hassrick House, Richard Neutra
- Collaboration with DOCOMOMO US, Preservation Alliance, Terragni Archive

Hassrick House, Richard Neutra, 1957, Philadelphia
Institute for Smart & Healthy Cities

- Co-Lead: Edgar Stach, PhD
  Barbara Klinkhammer, Dean
- Transdisciplinary Research and Design to advance the development of the urban environment into smart and healthy cities
- Research opportunities for graduate students
- Collaboration with multiple non-profit organizations and industry partners
Two TJU Architecture Graduate Programs

Master of Architecture Program
- A two track 2/3.5 year professional graduate degree program for students interested in becoming professionally licensed architects

Master of Science in Architecture
- A 1.5 to 2 year degree graduate program for students seeking an architectural research specialization that does not require licensure

- No GRE is required for application to either program
Master of Architecture Program

2 Tracks for students interested in becoming professionally licensed Architects

• The 3.5 year track is for students without an architecturally related bachelor degree

• The 2 year track is for students with a pre-professional bachelor degree in architecture or international 5 year degree

• The MArch is a NAAB accredited degree program -degree is required to be eligible for licensure (National Architectural Accrediting Board)
Master of Architecture Program

Advanced Standing Determination

- Upon application, a prospective student’s previous degree coursework is reviewed and advanced standing determined
- Courses completed as part of other degrees which meet the requirements of the MArch courses will be waived
- An Academic Study Plan with anticipated courses and schedule is generated at time of deposit

CURRICULAR SEQUENCE

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<thead>
<tr>
<th>SUMMER</th>
<th>YEAR 1</th>
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<td>INTRO TO DESIGN</td>
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<td>HISTORY 2 RENAISSANCE BAROQUE</td>
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49 Credits minimum for students with advanced standing
**Master of Architecture Studio Sequence**

The core of our program is the Design & Visualization Studio

- The Design Studios Conclude with a Thesis/ Capstone Project on student’s interest
- Design 3 is Collaboration with Sustainable Design & Interior Architecture grad students
- The Vis Studios start with hand drawing and end with 3-D modeling/ digital fabrication

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<td>ARCH-611 DESIGN 1 Urban Context 6CR</td>
<td>ARCH-613 DESIGN 3 Sustainable Operations 4CR</td>
<td>ARCH-616 DESIGN 6 Thesis Project 6CR</td>
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<td>ARCH-615 DESIGN 5 Comprehensive Studio 6CR</td>
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<td>ARCH-612 DESIGN 2 Natural Context 6CR</td>
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Master of Architecture History Theory Sequence

The History Theory sequence sets up a strong cultural & sustainable foundation

- These courses set a context for understanding architecture & our study abroad programs
- The Research Methods class focuses on graduate level research for the Thesis Project

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**Master of Architecture Technology Sequence**

A seven course sequence moving from basic materials to building performance

- Technology is considered “a means for making” though hand and computer work
- Advanced computer software is used to study building energy & material performance

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Master of Architecture Elective/ Certificate Sequence

The elective sequence sets up focused Certificates & areas to explore

- In the last three semesters, students use electives to widen personal education
- Ideally, students use the electives to enrich the Thesis/ Capstone project
- Students can complete professional internship for credit

<table>
<thead>
<tr>
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<td>ELECTIVE 3CR</td>
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| IARCH - Interior Architecture |
Master of Science in Architecture

A Research/ Specialization Degree

- Program offers students the platform to shape an education that furthers their architectural experience to develop advanced knowledge and expertise in areas of personal interest and specialization.
- Students can take advantage of numerous institutes including Smart & Healthy Cities, Center for the Preservation of Modernism & The Lab for Urban & Social Innovation.

- Led by CABE faculty, students shape a thesis/ directed research project.
- Students can work directly with renowned and research active faculty on their specific research areas such as
  - Future Smart Cities
  - Responsive Architecture
  - Environmental Sustainability & Design
  - Informal Settlements
  - Social Architecture
  - Health & Wellness
  - High Performance Buildings
  - Façade Technology

This work leads to published research and professional collaborations.
Master of Science in Architecture

- Students initially complete a trio of foundation courses:
  - Sustainability Design Studio
  - Principles of Sustainable Design
  - Research Methods
- Students then build a suite of electives from across the College & University to build a graduate level research collaborative foundation for a thesis/directed research project led by CABE faculty.

### Master of Science in Architecture Academic Plan

**Jefferson | College of Architecture and the Built Environment**

<table>
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<tr>
<th>Student Plan By</th>
<th>Kratzer</th>
<th>Plan ID</th>
<th>Number</th>
<th>Date Updated</th>
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<tr>
<td>Full Time</td>
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<td>6 credits minimum for full-time status and financial aid</td>
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<tr>
<td>Associated</td>
<td></td>
<td>Courses that are taken together in same semester</td>
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<tr>
<td>Electives</td>
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<td>Can be taken at any time and over summer if offered but must be Jefferson Courses.</td>
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<tr>
<th>Term</th>
<th>Credits</th>
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<th>Course Name</th>
<th>Credits</th>
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<td>SDN 601</td>
<td>PRINC &amp; METHODS OF SUST. DSGN</td>
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<td>Associated (recommended)</td>
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<td>ARCH 630</td>
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<td><strong>SPRING 2020</strong></td>
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<td>ELECTIVE</td>
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**SUMMER 2020**
It is possible to take classes in Summer to shorten your schedule.

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<th>Term</th>
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Total Program Credits: 31 credits
Master of Architecture & Master of Science in Architecture

Scholarships and Assistantships

- All students are automatically considered for Dean’s Scholarships based on GPA and academic experience.
- Graduate Assistantships are competitive and grant partial tuition waiver. Application Deadline: March 1
- Research and Teaching Assistantships are hourly paid positions for students with experience in portions of the curriculum and/or areas of faculty research. Application Deadlines: May 15 for Fall & Oct 1 for Spring Semesters.
Master of Architecture &
Master of Science in Architecture

STEM Designation

- MArch & MS Arch are science, technology, engineering and mathematics (STEM) designated programs

- This allows international students to be eligible for an extension of the Optional Practical Training (OPT) period for up to 36 months.

- OPT is a type of work authorization for F-1 student visa holders that provides an opportunity for employment in the United States (US).
College of Architecture & Built Environment

Potential Research Collaboration Areas

Historic Preservation
Photography
Interior Design
Landscape Design or Planning
Sustainable Design
Construction Management
GIS/ GeoDesign
Business
Real Estate Development
College of Architecture & Built Environment

Elective Inter-College Options & Research Collaboration Opportunities

ARCHITECTURE (MArch)
The Master of Architecture, a STEM-designated program, is a first professional degree geared towards a non-design major or with a pre-professional undergraduate degree in the architecture and design fields. With studios at the heart of the program, students explore today’s most creative design approaches using computer design techniques to address the challenges of the contemporary built environment.

ARCHITECTURE (BArch)
The Bachelor of Architecture is an advanced post-professional research-based degree for students with a professional degree in architecture, engineering, or allied discipline. Students in this program have the opportunity to focus their studies on a specific area of architecture and directly apply their research to their current work or to their career path. This program provides its graduates with an additional credential that enables them to pursue research and entrepreneurial practices, career in academia, or expand the knowledge of the profession. Required concentrations include Facades Design Technology and High-Performance Buildings.

CONSTRUCTION MANAGEMENT (MS)
Students learn advanced real-world problem-solving techniques from faculty experienced in industry professionals. This program develops a deep understanding of construction technology, business, architecture, and engineering, using the knowledge to manage construction processes on time and within budget, from project inception through completion. Construction Management is a STEM-designated program with online, on-campus, and certificate options. Accelerated Dual Degree En.D.I options are available in combination with Sustainable Design or Real Estate Development.

GEOGRAPHICAL TECHNOLOGY FOR GEODESIGN (MS)
This program leverages advanced geospatial technology, or GIS, in creating and finding innovative solutions to urban design and urban planning problems. Emphasizing GIS-based tools, EDI parametric design and modeling, sustainable design approaches, collaboration and innovation within an integrated process, this MSEDT-designated graduate program is intended to empower students to find innovative solutions to 21st-century urban challenges resulting from population growth, increasing resources, natural disasters, and climate change.

HISTORIC PRESERVATION (MS)
"The greenest building is the one already built." Our graduates preserve, re-envision, and re-purpose historic buildings as assets for healthy communities and a sustainable future. Students specialize in either preservation design or research and documentation, study the presentation of modern architecture at the historic Buddies Building in Germany, contribute research at the Center for the Preservation of Modernism at Jefferson, and learn from the wide range of historic styles in Philadelphia, America’s first World Heritage City.

REAL ESTATE DEVELOPMENT (MS)
Real estate development from the quadangle bottom line perspective—valuable, profitable, sustainable, and creative placemaking. Industry practitioners prepare students to be leaders for the 21st century by addressing issues of urbanization, sustainability, and market transformation. Accelerated Dual Degree En.D.I option in combination with Construction Management and Certificate options are available.

SUSTAINABLE DESIGN (MS)
Developed by top sustainability practitioners and experts, this award-winning program fuses design, engineering and industry, emphasizing market-driven innovation to help you become a leader in global sustainability. Sustainable Design is a STEM-designated program. Online, on-campus and certificate options available. Accelerated Dual Degree En.D.I option in combination with Construction Management is available.

To learn more about our programs visit Jefferson.edu/CABE

CREATE WHAT’S NEXT
College of Architecture & Built Environment
Graduate Program Research Collaboration Opportunities

Master of Architecture
MS in Architecture
MS in Construction Management
MS in GeoDesign
MS in Historic Preservation
MS in Interior Architecture
MS in Real Estate Development
MS in Sustainable Design
College of Architecture & Built Environment

Study Abroad

Semester-long Programs
- UARC Rome
- DIS Copenhagen
- IE Univ. Segovia
- Bauhaus Germany

Nexus Abroad Summer Programs
- Central Europe, Southern Europe, India

Faculty-led Short Courses
- South Africa
- Czech Republic
1 Fulbright Teaching Scholar: Professor Chris Harnish

FIVE TIME WINNER of John Stewardson Fellowship Competition

AWARDS

- Architect Magazine Studio Prize, 2019 (Malawi Studio)
- 1st Prize: 2014 ACSA International Student Steel Design Competition
- 1st Prize for Office Building: 2019 DOE Race to Zero Solar Decathlon Design Challenge Competition

EMPLOYERS OF JEFFERSON GRADUATES

- Gensler
- HOK
- Jacobs
- WRT
- Stantec
- Kieran Timberlake
- Ballinger
- WRT
- Nelson Worldwide
- Michael Graves
- EwingCole
- SmithGroup

OUTCOMES

RETENTION RATE

85%

Retention Rate for CABE in 2018

PLACEMENT RATE

100%

First Destination Report Class of 2019: Employment and Graduate School Success Rate for CABE

DISTINCTIONS
Architects plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.

Employment of architects is projected to grow 8 percent from 2018 to 2028, faster than the average for all occupations.

Sources: U.S. Bureau of Labor Statistics
COLLEGE FACILITIES

Fab Labs: Analog and digital fabrication spaces

- Comprehensive wood-shop
- Laser cutters
- CNC Router
- Over 30 3-D printers in studios

SEE Gallery
COLLEGE FACILITIES

CABE has state of the art studio spaces with individual computer screens, distanced learning labs, computer labs, and active learning classrooms.

Mirrors professional work environments.
• American Institute of Architects (AIA)
  • National, State and Local Chapters

• Society of American Registered Architects (SARA)
  • National, State and Local Chapters

• National Council of Architectural Registration Boards (NCARB)
  • Association which allows architects to transfer licenses to other states

• U.S. Green Building Council (GBC)
  • LEED Rating Systems
Career Services

- Design Expo
- Portfolio Preparation
- On-Line portfolios
- Interview Days
- Professional Internships for Credit
In completion of designs, students are required to consider a full balance of Site, Program, Form, Technology and Sustainability.

In this example Hutton Moyer designed a health facility proposal fully considering the site, construction materials and program spaces.
Student Work

Inter-disciplinary Design & Research Projects

In our studios, students work collaboratively with students and faculty in other disciplines as they will in the real world.

In this example Richard Jansen and his studio colleagues worked with the Jefferson Health Science program to design a collaboration center exploring natural organic systems.
It is extremely important for future architects to utilize research as a fundamental design tool to better our built environment.

In this example, architecture and landscape architecture students joined forces to research the natural and built components of a site. Such research includes literal inventory as well as historiographical development.
Student Work
Social Sustainability Design & Research Projects

In completion of designs, issues of community, social equity and cultural sustainability are extremely important factors to study and incorporate.

In this example Hardi Shah explored ideas to lower traffic fatality rates in Malawi, Africa.
Student Work
Environmental High Performance Design & Research Projects

How well a building operates in concert with our environment is critical

In this example, Kihong Ku studied responsive facades treatments with his students at Xi’an Jiaotong Liverpool University in Suzhou, China while visiting for the 2018-19 academic year.
Student Work

Thesis/ Capstone Design Projects

MArch Program focuses on supporting students completing a thesis project based on their personal interests.

In this example, Vietnamese student Nguyen Ton designed a revitalization of an abandoned NY State power station into an art center.
Student Work
Research Studios

Research studios focus on such topics as Global Informal Settlements, Smart Future Cities, Responsive Technologies & Environmental Sustainability

In this example, students designed high performance buildings for smart city development in Hong Kong.
Hand Drawing Versus Computer Drawing?

A common question we receive is which type of drawing does our program emphasize? The answer is both. We believe the ability to sketch, hand draw, diagram and build models are fundamental architectural skills just as much as being proficient in digital rendering. Programs we use:

- Microsoft Office
- Adobe Creative Suite
- AutoDesk (AutoCad & Revit)
- Rhinoceros
Chris Harnish, Associate Professor

Education:

▸ MArch, University of Oregon
▸ BA, Environmental Studies and English literature, Denison University

Professor Harnish specializes in such humanitarian architecture in Malawi and South Africa, examining the process of design and construction with the goal of positive culture and environmental impact in local communities. In 2016, Professor Harnish was awarded a Fulbright Teaching Scholar Fellowship for his proposal, “Equity, Sustainability and Resilience: Architecture as a Social Force in Humanitarian Development”.

Watch his video: https://vimeo.com/361046725
TJ Burghart 2014 Alumnus

- MASS Design Group in their Kigali, Rwanda office in Africa.
- Formerly AmeriCorps Construction Crew Leader at Habitat for Humanity Philadelphia Inc.

Education:

- BArch Jefferson ’14 with Minor in Arch. History/Theory
- AIAS Director Freedom by Design

“I view architecture as a tool that has implications beyond its walls through the process. Spaces are where people come together to live. Details and moments of these spaces influence our daily experience and shape who we are. As a recent graduate, I continually seek to understand how we can improve our quality of life”.
Skylar Tibbits  2008 Alumnus

- Assistant Professor at MIT

- Education:
  - BArch Jefferson ‘08
  - Minor Experimental Computation
  - MS in Design Computation
  - MS in Computer Science

- Skylar Tibbits is a co-director and founder of the Self-Assembly Lab housed at MIT’s International Design Center. The Self-Assembly Lab focuses on self-assembly and programmable material technologies for novel manufacturing, products and construction processes.