B.S. in Architectural Studies
College of Architecture & The Built Environment
Welcome!

This is an introduction to the Bachelor of Science in Architectural Studies Program at Thomas Jefferson University in Philadelphia.

In this presentation we will review:

- A Program Description
- The Plan of Study
- Minors & Graduate Programs
- Outcomes
- Facilities & Career Services
- Sample Student Work
- Faculty & Alumni Profiles
Please email me with any questions or requests as these are exciting times.
College of Architecture & The Built Environment (CABE)

• Balance between theory and practice, design excellence and making
• Unique combination of disciplines = interdisciplinary collaboration
• Preparing to be 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
Bachelor of Science in Architectural Studies Program

• A 4-year pre-professional design and technology degree program

• For students interested in working within the architectural profession but not as a licensed architect

• Students set up curricular programs around their personal interests from courses within CABE and the University
Bachelor of Science in Architectural Studies

The core of the program is the Bachelor of Architecture Foundation Courses

- Students complete the first three semesters of the Bachelor of Architecture Program including design studios, visualization courses, history and technology courses

- After foundation courses, students develop concentrations & minors to complete a personalized curriculum

- Students can apply to transfer to BArch program after foundation courses if desired

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARFD-101</td>
<td>DESIGN 1 Interdisciplinary Explorations</td>
</tr>
<tr>
<td>ARFD-102</td>
<td>DESIGN 2 Architectural Graphics</td>
</tr>
<tr>
<td>ARFD-103</td>
<td>VIS 1 Drawing + Orthogonal Projection</td>
</tr>
<tr>
<td>ARFD-108</td>
<td>VIS 2 Tech &amp; Graphic Rep Adobe/CAD</td>
</tr>
<tr>
<td>ARFD-118</td>
<td>VIS 3 Digital Modeling Rhinoceros ARCHDSN</td>
</tr>
<tr>
<td>ARDS-208</td>
<td>TECH 1 Materials &amp; Methods ARCHDSN</td>
</tr>
<tr>
<td>ARDS-210</td>
<td>TECH 2 Passive Systems + Glue ARCHDSN</td>
</tr>
<tr>
<td>ARDS-303</td>
<td>TECH 3 Passive Systems + Glue ARCHDSN</td>
</tr>
<tr>
<td>ARCH-102</td>
<td>DESIGN 3 Urban Site &amp; Context</td>
</tr>
<tr>
<td>ARCH-103</td>
<td>DESIGN 4 Natural Site &amp; Context</td>
</tr>
<tr>
<td>ARCH-213</td>
<td>DESIGN 5 Urban Operations Special Issues</td>
</tr>
<tr>
<td>ARCH-214</td>
<td>DESIGN 6 Urban Operations Special Issues</td>
</tr>
<tr>
<td>ARCH-311</td>
<td>DESIGN 7 Nexus Experience Options</td>
</tr>
<tr>
<td>ARCH-312</td>
<td>DESIGN 8 Comprehensive Project</td>
</tr>
<tr>
<td>ARCH-401</td>
<td>DESIGN 9 Research Studio I</td>
</tr>
<tr>
<td>ARCH-412</td>
<td>DESIGN 10 Research Studio II</td>
</tr>
<tr>
<td>MATH 101</td>
<td>INTRO TO CALCULUS</td>
</tr>
<tr>
<td>MATH 201</td>
<td>ELECTIVE</td>
</tr>
<tr>
<td>WRIT-101</td>
<td>WRITING SEMINAR 1</td>
</tr>
<tr>
<td>WRIT-201</td>
<td>WRITING SEMINAR 2</td>
</tr>
<tr>
<td>HIST-114</td>
<td>AMERICAN TRANSITIONS</td>
</tr>
<tr>
<td>SOC-2XX</td>
<td>SOCIAL SCIENCES 1</td>
</tr>
<tr>
<td>LANG/AREA</td>
<td>LANGUAGE/AREA STUDIES 1</td>
</tr>
<tr>
<td>LANG/AREA</td>
<td>LANGUAGE/AREA STUDIES 2</td>
</tr>
<tr>
<td>HALLMARKS</td>
<td>HALLMARK CAPSTONE</td>
</tr>
<tr>
<td>ELECTIVES</td>
<td>ELECTIVE 12 CR MINORS</td>
</tr>
</tbody>
</table>

**HALLMARKS**
- **DESIGN + REPRESENTATION**
  - CABE ELECTIVE 12 CR MINORS
  - SND - Sustainable Design
  - RED - Real Estate Development
  - GEO - GeoDesign
  - CM - Construction Administration
  - HP - Historic Preservation
  - HPB - High Performance Building

**CURRICULUM SEQUENCE**

**YEAR 1**
- **DESIGN + REPRESENTATION**
  - ARFD-101
  - ARFD-102
  - ARFD-103
- **TECHNOLOGY**
  - ENVIRO-SCIENCE
  - PHYS-101
- **HISTORY + THEORY**
  - AHST-205
  - AHST-206
- **PROFESSIONAL PRACTICE**
  - WRIT-101
  - WRIT-201
- **ELECTIVES**
  - ELECTIVE

**YEAR 2**
- **DESIGN + REPRESENTATION**
  - ARCH-102
  - ARCH-103
  - ARCH-213
- **TECHNOLOGY**
  - ARDS-208
  - ARDS-210
- **HISTORY + THEORY**
  - AHST-205
  - AHST-206
- **PROFESSIONAL PRACTICE**
  - WRIT-101
  - WRIT-201
- **ELECTIVES**
  - ELECTIVE

**YEAR 3**
- **DESIGN + REPRESENTATION**
  - ARCH-214
  - ARCH-311
  - ARCH-312
- **TECHNOLOGY**
  - ARCH-311
  - ARDS-303
- **HISTORY + THEORY**
  - AHST-205
  - AHST-206
- **PROFESSIONAL PRACTICE**
  - WRIT-101
  - WRIT-201
- **ELECTIVES**
  - ELECTIVE

**YEAR 4**
- **DESIGN + REPRESENTATION**
  - ARCH-313
  - ARCH-401
  - ARCH-412
- **TECHNOLOGY**
  - ARCH-314
  - ARCH-416
- **HISTORY + THEORY**
  - AHST-205
  - AHST-206
- **PROFESSIONAL PRACTICE**
  - WRIT-101
  - WRIT-201
- **ELECTIVES**
  - ELECTIVE
Bachelor of Science in Architectural Studies

The core of the program is the Bachelor of Architecture Foundation Courses

- Students can apply to transfer to BArch Program after foundation courses if they desire to become registered architects

- BArch students can also transfer to the BS Arch Studies Program

- Upon graduating with a BS Arch Studies degree, students can enter and complete the Master of Architecture Program in 2 years to be eligible for architectural licensure
Bachelor of Science in Architectural Studies

Elective/Minor Sequence

The elective sequence sets up focused Minors, Certificates & Combined UG+G Degrees

- Students declare a minimum of 2 minors in areas of interest

- These choices can lead to Accelerated Combined UG+G Degrees

- Primary Concentrations include
  - Historic Preservation
  - Architectural Design Technology
  - Architectural Photography
  - Custom Concentrations in any CABE Program
College of Architecture & Built Environment

Minors - minimum 12 credits

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

Graduate Programs

- 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
Accelerated Dual Degrees

Through coordination of your minors, you can continue into a graduate degree adding to your professional competitiveness

**Accelerated Undergraduate Degree + Graduate Degree**
- B.S. Arch Studies + M. Architecture
- B.S. Arch Studies + M.S. Historic Preservation

**Undergraduate Degree + Graduate Degree**
- B.S. Arch Studies + any Master in CABE
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
**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**

1 Fulbright Teaching Scholar: Professor Chris Harnish

FIVE TIME WINNER of John Stewardson Fellowship Competition

**AWARDS**

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

**EMPLOYERS OF JEFFERSON GRADUATES**

- Gensler
- HOK
- Jacobs
- WRT
- Stantec
- Kieran Timberlake
- Ballinger
- WRT
- Nelson Worldwide
- Michael Graves
- EwingCole
- SmithGroup
Architect (this data may fluctuate for allied disciplines)

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

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
College Facilities

FabLabs: Analog and digital fabrication spaces

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

SEE Gallery
Career Services

• Design Expo
• Portfolio Preparation
• *On-Line* portfolios
• Interview Days
• Professional Internships for Credit
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
Student Work
Visualization Projects

The ability to visualize building projects and excel in rendering, Ai and VR software is an ever expanding portion of the architecture profession.
It is extremely important for future professionals to utilize research as a fundamental design tool to better our built environment.
Student Work
Architectural Technology
Environmental Performance Projects

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

In this example, students assisted with the US Dept. of Energy Solar Decathlon project for environmental performance.
Suzanna Barucco, MA
ADJUNCT PROFESSOR
M.S. HISTORIC PRESERVATION PROGRAM
B.S. ARCHITECTURAL STUDIES, HISTORIC PRESERVATION

MA in Historic Preservation Planning, Cornell University

Ms. Barucco is principal of sbk + partners, LLC, a historic preservation consulting practice providing professional services for the assessment, preservation, restoration, rehabilitation and adaptive reuse of historic buildings, sites and landscapes.

COURSES

- ARST-621 - ISSUES IN CONTEMPORARY PRESERVATION
- ARST-603/ARST-403 - RESTORATION AND REHABILITATION OF MODERNIST BUILDINGS
- ARCH-508-1 - DESIGN 10: ARCHITECTURE, ADAPTIVE REUSE
TJ Burghart
MASS DESIGN GROUP
KIGALI, RWANDA

BArch with minor in Arch. History/Theory
CLASS OF 2014

AIAS Director Freedom by Design
Formerly AmeriCorps Construction Crew Leader at Habitat for Humanity Philadelphia Inc.

“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”.
Allee Berger Davis
SENIOR ARCHITECTURAL HISTORIAN
RICHARD GRUBB ASSOCIATES
PHILADELPHIA, PA

B.S. Architectural Studies, Historic Preservation Concentration
CLASS OF 2010
M.S. Historic Preservation, University of Pennsylvania
CLASS OF 2013

After graduating from Philadelphia University with a concentration in Historic Preservation, Allee continued her preservation studies at UPenn. She has served as Senior Architectural Historian at Richard Grubb Associates for nearly seven years after serving as Outreach and Preservation Director at SS United States Conservancy for seven years. Currently she is President of Docomomo US/Greater Philadelphia. She advocates for and creates awareness of Modern Sites, Buildings, Neighborhoods and Landscapes. Allee has also served in the Steering Committee of the Young Friends of the Preservation Alliance for Greater Philadelphia, aimed at engaging young residents of the city on preservation issues related to the urban fabric of Philadelphia.
Skylar Tibbits
ASSISTANT PROFESSOR
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE, MA

BArch with minor in Experimental Computation
CLASS OF 2008
M.S. Design Computation, MIT
M.S. Computer Science, MIT

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.