

# ARCHITECTURE & SUSTAINABILITY

## PROGRAM STRUCTURE

Today's architectural professionals have to understand the relationship between sustainability and architecture. They are focused on rethinking the built environment, balancing economic equity with environmental equity. They are part of a creative profession that sees their ideas become built reality.

Architecture and Sustainability graduates step into the workplace well prepared. Our real-world approach to education prepares students to be professionals. Graduates possess excellent creative and technical skills. They also understand how to work with a team or create a refined 3D rendering and polished presentation.

Our reputation among A&E firms, interior design firms, and corporations results in nearly 100-percent career placement. Graduates are working in Michigan and around the country.

As a 2+2 program, the first two years of the undergraduate experience begins with a foundation of technical and artistic skills leading to an AAS degree in Architectural Technology. The Architectural Technology program provides students with a solid foundation for the development of problem-solving skills, design thinking and technical skills in digital technology and building systems. With this associate degree, students have options to continue in the School of Built Environment and earn a bachelor's degree in Architecture and Sustainability, Facility Management or Construction Management.

The Architecture and Sustainability program teaches students to embrace sustainability and community planning principles and incorporate a set of practices and way of thinking about the sustainable development of the built environment.

Juniors and seniors are matched with practicing architects who serve as mentors for the academic year. Architects offer students time for project feedback, portfolio and resume advice, and professional guidance.

Fourth-year Architecture and Sustainability students participate in the Small Town Studio experience. Small Town Studio brings together teachers, students, professionals, and community members from diverse backgrounds to address a range of design and planning problems involving environmental, social, and economic issues. Small Town Studio is unique among architectural schools in its focus on rejuvenating the fabric of small towns.

Dual Degree students graduate in five years with two bachelor's degrees. The first two years complete an associate degree in Architectural Technology, and the final three years complete two of the following bachelor's degree programs offered through the School of Built Environment: Architecture and Sustainability, Facility Management, and Construction Management.

Graduates with a dual degree broaden their career options. Their in-depth knowledge of two subjects and completion of a rigorous curriculum impress prospective employers. Our graduates typically go on to work in large A&E or Construction Management firms that offer facility management consulting or for the facility departments of large organizations.

Graduates who pursue master degrees are well prepared for the competitive environment of post-graduate architectural programs. Like their peers who enter the workplace, students in master programs have the theoretical knowledge and technical, communication, and problem solving skills to succeed.

## PROGRAM OBJECTIVES

A Bachelor of Science degree in Architecture and Sustainability prepares students for:

- Career-entry employment.
- Continued education in a NAAB-accredited (National Architectural Accrediting Board) graduate program, leading to licensure.



**"MY REASON FOR  
SELECTING FERRIS WAS  
ITS FOCUS ON DEGREES  
THAT TRANSLATED  
INTO JOBS."**

*SAM, 2015 GRADUATE*



**1:18**

**TEACHER : STUDENT  
RATIO**

## THE SMALL TOWN STUDIO

Architects and architectural students must retain connections to the patterns of everyday life if they are to do their work effectively. The BS program integrates a unique approach to connecting students with these patterns through its Small Town Studio, which serves to contextualize the work that students do, and introduce them to the challenges and opportunities presented by real clients and real problems.

## VISITING PROFESSOR

The program integrates a Visiting Professor who journeys to Big Rapids on a regular schedule throughout the semester; works in tandem with a full-time faculty member to provide a framework of project creation, development and review; and brings to the studio first-hand experience with the critical professional issues of the day.

## GRADUATE OPTIONS

There are no geographic limitations on future employment opportunities; however, educational requirements for architectural licensure vary by state, so students should research these requirements, as well as the requirements for graduate education should they choose to pursue a master's degree.

Nearly half of our graduates go on to master's degree programs around the country, including:

- Ball State University
- Boston Architectural College
- Clemson University
- Kendall College of Art and Design
- University of Colorado
- University of Minnesota
- University of North Carolina at Charlotte
- Washington University (St. Louis)

## PROGRAM ENROLLMENT

Entry into the BS in Architecture and Sustainability program is competitive and open to Ferris AAS graduates and transfer students at the third year with appropriate preparation. Minimum requirements include:

- AAS in Architectural Technology
- College transcripts
- 2.75 GPA
- Design Portfolio (including letter of intent/ personal statement)

## CURRICULUM

### FIRST YEAR FALL SEMESTER (17 CREDITS)

ARCH 101	Architectural Graphics
ARCH 112	Structural Materials, Systems & Codes
ARTS 101	Basic Arts
ENGL 150	English 1
MATH 120	Trigonometry
FSUS 100	FSU Seminar

### FIRST YEAR SPRING SEMESTER (17 CREDITS)

ARCH 102	Architectural Digital Graphics
ARCH 115	Interior & Exterior Finish Materials
ARCH 119	Sustainability in Architecture: Intro
ARCH	Architectural Elective
COMM 121	Fundamentals of Public Speaking OR
COMM 105	Interpersonal Communication
SOCY 121	Introduction to Sociology

### SECOND YEAR FALL SEMESTER (17 CREDITS)

ARCH 203	Architectural Documentation
ARCH 241	Design Principles
ARCH 244	Architectural History 1
HVAC 337	Mechanical & Electrical Systems
PHYS 211	Introductory Physics 1

## APPLY TO BACHELOR PROGRAM

### SECOND YEAR SPRING SEMESTER (16 CREDITS)

ARCH 204	Architectural Detailing
ARCH 223	Statics & Strength of Materials
ARCH 245	Architectural History 2
ARCH	Architectural Elective
ENGL 250	English 2

### THIRD YEAR FALL SEMESTER (17 CREDITS)

ARCH 341	Architectural Design 1
ARCH 323	Structural Design
ARCH 361	Environmental Systems 1
ENGL 311, 323, or 325	English Elective
PLSC 121	American Government 1 OR
PLSC 122	American Government 2

### THIRD YEAR SPRING SEMESTER (17 CREDITS)

ARCH 342	Architectural Design 2
ARCH 362	Environmental Systems 2
ARCH	Architectural elective
FMAN 432	Principles of Interior Architecture
SOCY 341	Community Studies

### FOURTH YEAR FALL SEMESTER (16 CREDITS)

ARCH 441	Architectural Design 3
ARCH 419	Sustainability in Architecture: Advanced Topics
ARCH 421	Current Issues in Architecture
PLSC 411	Urban and Regional Planning
Elective	Science Elective

### FOURTH YEAR SPRING SEMESTER (14 CREDITS)

ARCH 499	Architectural Design 4
ARCH ELEC	Architectural elective
FMAN 322	Project Management
Elective	Global Elective