



DEPARTMENT OF
HIGHER EDUCATION &
WORKFORCE DEVELOPMENT

New Program Report

Date Submitted:

02/13/2024

Institution

University of Missouri-Kansas City

Site Information

Implementation Date:

8/1/2024 12:00:00 AM

Added Site(s):

Selected Site(s):

University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, MO, 64110

CIP Information

CIP Code:

040201

CIP Description:

A program that prepares individuals for the independent professional practice of architecture and to conduct research in various aspects of the field. Includes instruction in architectural design, history, and theory; building structures and environmental systems; project and site planning; construction; professional responsibilities and standards; and related cultural, social, economic, and environmental issues.

CIP Program Title:

Architecture

Institution Program Title:

Bachelor of Architecture

Degree Level/Type

Degree Level:

Bachelor's Degree

Degree Type:

Bachelor of Architecture

Options Added:

Collaborative Program:

N

Mode of Delivery

Current Mode of Delivery

Classroom

Student Preparation



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Special Admissions Procedure or Student Qualifications required:

High school students planning to apply to the B.Arch. program are strongly encouraged to take a college preparatory program including:

- ½ unit of Trigonometry (may be incorporated in another course)
- Algebra
- Geometry
- 4 units of English
- History
- 3 to 4 units of science, including physics
- 3 to 4 units of social studies
- 2 to 4 units of foreign language
- Courses in both freehand drawing and technical drawing are highly encouraged
- Pre-calculus and/or calculus is highly encouraged

First-time college student applicants who do not meet the above criteria but do meet UMKC general admission requirements will have their applications reviewed by a committee for admission. Applicants who are not admitted to the B.Arch. program but do meet UMKC general admission requirements may be admitted to University College.

Students without the prerequisite preparation must take the needed coursework before enrolling in courses required for the bachelor's degree. Students seeking re-admission must have been in good academic standing when last enrolled. Otherwise, re-admission requires a formal review by the undergraduate program committee.

Transfer applicants must have at least 24 credits of transferable college credit, an overall 2.0 GPA on a 4.0 scale in all coursework, which includes repeated coursework, attempted at previous institutions.

Transfer applicants without a 2.0 or higher college GPA must submit a petition for admission.

For International First-Time College (FTC): 3.0 GPA or higher from high school (and at least a 3.0 in any other post-high school academics, i.e. ESL programs); 5.5 IELTS (with at least a 5.0 in each section) or 61 TOEFL.

For International Transfer (TRN): same as TRN domestic in terms of GPA; if student has completed 24 academic credits or more at a US institution (not ESL) then they are exempt from the English proficiency requirement, otherwise it's the same as FTC.

Specific Population Characteristics to be served:

n/a

Faculty Characteristics

Special Requirements for Assignment of Teaching for this Degree/Certificate:

Faculty members who teach specific courses must hold a PhD and/or architecture license.

Estimate Percentage of Credit Hours that will be assigned to full time faculty:

Full time faculty will teach 85% of the courses.

Expectations for professional activities, special student contact, teaching/learning innovation:

Faculty, who hold licensure, will be expected to maintain it.

Student Enrollment Projections Year One-Five

Year 1	Full Time: 50	Part Time: 0	
Year 2	Full Time: 115	Part Time: 0	



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Year 3	Full Time: 167	Part Time: 0	Number of Graduates: 0
Year 4	Full Time: 209	Part Time: 0	
Year 5	Full Time: 242	Part Time: 0	Number of Graduates: 20

Percentage Statement:

100.00

Program Accreditation

Institutional Plans for Accreditation:

It is planned to have the B.Arch. degree accredited through the National Architecture Accreditation Board (NAAB). The NAAB accredits B.Arch., M.Arch., and D.Arch. degrees for professional licensure in Architecture. Initial discussions with NAAB have already occurred. Candidacy from NAAB is expected in 2025 which sets the program up for an initial accreditation visit in 2030. The following table spells out the entire timeline for program implementation and the NAAB accreditation procedure.

Step Description Date

- 1 Initiate Contact with the NAAB, confirm minimum expectations for initiating Eligibility for Candidacy visit Fall 2023
- 2 Initiate Search for TT Architecture Hire (Program Director) Fall 2023
- 3 Submit Plan for Achieving Initial Accreditation Eligibility Requirement for NAAB* Fall 2023
- 4 NAAB Eligibility Visit (Best to have successful Program Director hired by Summer 2024)* Spring 2024
- 5 Application for Initial NAAB Candidacy (APR-C*) Summer 2024
- 6 Architecture TT- Hire 2024-2025
- 7 Feb-Mar 2025 Candidacy Visit Spring 2025
- 8 Granting of NAAB Candidacy Spring 2025
- 9 Architecture TT/NTT Hire 2025-2026
- 10 Architecture TT/NTT Hire 2026-2027
- 11 Review of Candidacy Spring 2027
- 12 Review of Candidacy Spring 2029
- 13 Request for Initial Accreditation Fall 2029
- 14 Accreditation Visit 2030

Program Structure

Total Credits:

150

Residency Requirements:

n/a

General Education Total Credits:

33

Major Requirements Total Credits:

117

Course(s) Added

COURSE NUMBER	CREDITS	COURSE TITLE
xxxxx	10	Internship
ENV-DSN 250	3	Arch History 1



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xxxxx	5	Design Studio 6
xxxxx	1	Digital Architecture 3
xxxxx	5	Design Studio 7 (or Study Abroad)
ENV-DSN 202	4	Design Studio 2
xxxxx	3	Professional Practice
ENV-DSN 433	3	Building Construction Systems 1
ENV-DSN 201	4	Design Studio 1
ENV-DSN 302	5	Design Studio 4
UPD 499C	1	Digital Architecture 1
UPD 260	3	Planning Elective
UPD 499E	1	Digital Architecture 2
ENV-DSN 251	3	Arch History 2
xxxxx	3	Building Construction Systems 2
ENV-DSN 301	5	Design Studio 3
UPD 280	3	Planning Elective
xxxxx	5	Design Studio 5
xxxxx	12	Professional Support Electives
ENV-DSN 252	3	Arch History 3
xxxxx	1	Studio Seminar
PHYS 210	4	General Physics

Free Elective Credits:

0

Internship or other Capstone Experience:

All students are required to complete an internship during the 4th year spring and summer that counts for 10 credit hours toward the degree.

Assurances

I certify that the program is clearly within the institution's CBHE-approved mission. The proposed new program must be consistent with the institutional mission, as well as the principal planning priorities of the public institution, as set forth in the public institution's approved plan or plan update.

I certify that the program will be offered within the proposing institution's main campus or CBHE-approved off-site location.

I certify that the program will not unnecessarily duplicate an existing program of another Missouri institution in accordance with 6 CSR 10-4.010, subsection (9)(C) Submission of Academic Information, Data and New Programs.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the program can be launched with minimal expense and falls within the institution's current operating budget.



New Program Report

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

Contact Information

First and Last Name: Zandra
Kent

Email: zlkhd4@umsystem.edu

Phone: 573-882-6756

Draft Architecture Curriculum (5-year B.Arch)

250 students

FIRST YEAR				
<i>Student #</i>	<i>Course #</i>		<i>Credits</i>	<i>Notes</i>
		FALL: FIRST YEAR		
18		Design Studio 1, Section 1	4	Prof 1, First-Year Coordinator (Musso)
18		Design Studio 1, Section 2		Adjunct
18		Design Studio 1, Section 3		Adjunct
		Studio Seminar	1	Prof 1 (Musso) + Adjuncts
		Arch History 1 (open to non-majors)*	3	Prof 1 (Musso)
	GEFSE 101	First Semester Experience	3	
	MATH 110	Precalculus Algebra	3	
			14	
		SPRING: FIRST YEAR		
na		Design Studio 2, Section 1	4	Prof 1, First-Year Coordinator (Musso)
na		Design Studio 2, Section 2		Adjunct
na		Design Studio 2, Section 3		Adjunct
		Arch History 2 (open to non-majors)*	3	Prof 1 (Musso)
		Digital Architecture 1	1	Adjunct (Holwell)
	PHYS 210	General Physics 1	4	
	Gen-Ed	Oral Communication	3	
			15	

Kicking off first year:
No new hires.

SECOND YEAR					Kicking off second-year:
Student #	Course #		Credits	Notes	
		FALL: SECOND YEAR			No new hires.
18		Design Studio 3, Section 1	5	Prof 2, Second-Year Coordinator (Eck)	
17		Design Studio 3, Section 2		Adjunct	
17		Design Studio 3, Section 3		Adjunct	
		Building Construction Systems 1	3	Prof 2 (Eck)	
		Arch History 3 (open to non-majors)	3	Prof 1 (Musso)	
		Digital Architecture 2	1	Adjunct (Holwell)	
	Gen-Ed	Written Communication I	3		
	Gen-Ed	Social & Behavioral Sciences	3		
			18		
		SPRING: SECOND YEAR			
na		Design Studio 4, Section 1	5	Prof 2, Second-Year Coordinator (Eck)	
		Design Studio 4, Section 2		Adjunct	
		Design Studio 4, Section 3		Adjunct	
		Building Structures 1	4	Adjunct (Henley/Prof 7)	
		Digital Architecture 3	1	Adjunct (Holwell)	
	Gen-Ed	Written Communication II	3		
	Gen-Ed	Culture & Diversity	3		
			16		

THIRD YEAR

Student #	Course #		Credits	Notes
		FALL: THIRD YEAR		
16		Design Studio 5, Section 1	5	Prof 3, Third-Year Coordinator
16		Design Studio 5, Section 2		Prof 6
16		Design Studio 5, Section 3		Adjunct (ideally, Prof 7)
		Building Structures 2	4	Adjunct (Henley/Prof 7)
		Environmental Systems 1	3	Prof 3
	UPD 260	Planning Elective - History of Planning and Urban	3	
			15	
		SPRING: THIRD YEAR		
na		Design Studio 6, Section 1	5	Prof 3, Third-Year Coordinator
		Design Studio 6, Section 2		Prof 6
		Design Studio 6, Section 3		Prof 4
		Building Construction Systems 2	3	Prof 2 (Eck)
		Environmental Systems 2	3	Prof 3
	Gen-Ed	Civic Engagement	3	
	Gen-Ed	Natural & Physical Sciences	3	
			17	

Kicking off third-year:

Two new hires (Profs 3 and 6).

Prof 6 could be an ideal spot for the Program Director, as he/she would have a light load for two years, giving them time to really fine-tune the program, create study abroad program, etc.

FOURTH YEAR: Study Abroad and/or Internship

Student #	Course #		Credits	Notes	Kicking off fourth-year: One new hire (Prof 4)
		FALL: FOURTH YEAR			
16		Design Studio 7 (for students not on Study Abroad)	5	Prof. 4, Fourth-Year Coordinator	
32		STUDY ABROAD			
		Professional Support Elective	3	Prof 4	
	Gen-Ed	Arts & Humanities	3		
	Gen-Ed	Pol-Sci 210 or Hist 102 (Mo Const.)	3		
			14		
		<i>or study abroad</i>			
		SPRING/SUMMER: FOURTH YEAR			
		Internship (semester + summer)	10	Prof. 4, Fourth-Year Coordinator	
		Professional Support Elective	3	Prof 4	
na			13		

FIFTH YEAR				
<i>Student #</i>	<i>Course #</i>		<i>Credits</i>	<i>Notes</i>
		FALL: FIFTH YEAR		
16		Design Studio 9, Section 1 Project Programming 1	5 3	Prof 5, Fifth-Year Coordinator
16		Design Studio 9, Section 2 Project Programming 2		Adjunct
16		Design Studio 9, Section 3 Project Programming 3		Adjunct
		Professional Practice	3	Adjunct
		Professional Support Elective	3	Prof 5
		Professional Support Elective		Prof 6
			14	
		SPRING: FIFTH YEAR		
na		Design Studio 10, Section 1 Design Communications 1	5 3	Prof 5, Fifth-Year Coordinator
		Design Studio 10, Section 2 Design Communications 2		Adjunct/Prof 7
		Design Studio 10, Section 3 Design Communications 3		Adjunct
		Professional Support Elective		Prof 5
		Professional Support Elective	3	Prof 6
	UPD 280	Planning Elective - Land Use Planning	3	
			14	
250			150	TOTALS

Kicking off fifth-year:
 One new hire.
 (Prof 5)

New Degree Proposal

FULL PROPOSAL

Basic Program Information

Sponsoring University: UMKC

College or School: School of Science and Engineering (SSE)

Department: Division of Natural and Built Environment (NBE)

Proposed Program Title: Bachelor of Architecture

Degree Level/Type: B.Arch.

Program Modality: Fully in-person

Program CIP Code¹: 04.0201

Implementation: August 2024

Expected Date of First Graduation: May 2029

Proposal Author(s): Dr. Katherine Bloemker, SSE

Name, phone, and email of person primarily responsible for the proposal:

Dr. Laurie Ellinghausen, Associate Vice Provost for Academic Innovation, (816) 260-2527, ellinghausenl@umkc.edu

Individual(s) Responsible for Success of the Program:

Dean Kevin Z. Truman, SSE
Assistant Dean Katherine Bloemker, SSE
Professor John Eck, SSE

¹ A selection of CIP codes can be viewed on the National Center for Education Statistics website: <https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55>

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Executive Summary

This proposal is for a new bachelor's degree program in Architecture (B.Arch.) at UMKC. The B.Arch. program would be housed in the School of Science and Engineering (SSE) under the Division of Natural and Built Environment (NBE). This program will build on the present Architectural Studies program at UMKC which already offers the first two years of coursework necessary for the B.Arch. program.

It is planned that the B.Arch. at UMKC will be a five-year program accredited through the National Architecture Accreditation Board (NAAB). This accreditation gives students the ability to become licensed architects in their future careers. The architecture licensure procedure requires that students must finish with a "professional degree" which is accredited by the NAAB with the designation of B.Arch., M.Arch., or D.Arch. A student cannot become a licensed architect with a B.A. or B.S. degree even if it is in "Architecture" or "Architectural Studies". Those degrees are not accreditable by the NAAB and are generally called "pre-professional degrees".

The state of Missouri does not currently have a public school that offers an NAAB-accredited "professional degree" in architecture for its residents. The proposed B.Arch. degree from UMKC will provide an opportunity to all Missouri residents, from both the rural communities and urban centers, to attend an in-state, affordable, public architecture school. This not only captures students who are currently leaving the state of Missouri to go to public architecture programs out of state – such as Arkansas, Illinois, Iowa, Kansas, Nebraska, Oklahoma, but also captures students who may have been unable to attend any of the current private options in the state of Missouri. UMKC's program will differentiate itself from these regional institutions by providing a lower-cost, community-centered architecture school experience located in the heart of a metropolitan area saturated with professional architecture opportunities and resources.

UMKC's architecture program will be a lower cost alternative for students as compared to the current regional public options – with fewer credit hours (150 for the B.Arch. versus 170-180 for the M.Arch.), all at undergraduate tuition rates at UMKC as compared to neighboring regional public programs which transition students to graduate rates in the fifth/sixth year. In addition, the strength of the architecture profession in Kansas City provides ample resources for this new program to supplement full-time faculty with adjunct, working professionals who have the necessary credentials for a successful accredited program. Another major goal of this program is to provide a community-centered experience by using the local architectural firms and resources. Students in this program will have the opportunity to directly engage with the local metropolitan industry through community-based projects and robust internship opportunities. These unique opportunities are only possible due to UMKC's proximity to the local architecture industry.

This five-year B.Arch. program will directly support the UMKC vision to promote interdisciplinary education, thereby bringing innovation, workforce professionals, and new economic developments to the metropolitan area. This UMKC B.Arch. will also

directly contribute to the Architecture and Engineering cluster of firms as identified by KC Rising², a regional economic development initiative formed to help KC grow faster and more intentionally, and promoted by the regional KC Global Design partnership. Finally, the B.Arch. at UMKC will have the added benefit of enhancing community and neighborhood engagement through studio projects in the Kansas City and local Missouri communities.

1. Introduction

The Bachelor of Architecture (B.Arch.) degree is a five-year undergraduate degree consisting of 150 credit hours. UMKC already has a coordinated Architectural Studies program with Kansas State University (KSU). Current students in the coordinated Architecture program spend their first two years at UMKC and then finish their last three years at KSU, ultimately receiving their M.Arch. degree from KSU. UMKC plans to build upon the already existing two years of curriculum taught at UMKC and begin a brand-new B.Arch. program completed entirely at UMKC.

Defining Attributes

There are several defining aspects to the proposed B.Arch. program that differentiate it from regional institutions and other traditional architecture programs:

- With only 150 student credit hours and public in-state undergraduate tuition, this program provides an affordable and feasible architecture option for local Kansas City students and Missouri residents.
- Current NAAB-accredited B.Arch. or M.Arch. architecture programs in the region are located at less affordable institutions and require substantially more student credit hours, typically 170-180+, including graduate level tuition in year 5/6.
- Being located in the Kansas City metropolitan area, this program will open pathways to the architecture profession for students who may not have had this opportunity otherwise due to the inability to relocate, family and work obligations, and financial pressures.
- The architecture profession in Kansas City, and across the country, is in need of a more robust workforce. UMKC can directly impact the workforce needs of the architecture community in both Kansas City, as well as the entire state of Missouri.

Licensure

In order to become a licensed architect, there are several different pathways, but all of them must finish with a “professional degree” which is accredited by the National Architecture Accreditation Board (NAAB) with the designation of B.Arch., M.Arch., or D.Arch. A student cannot become a licensed architect with a B.A. or B.S. degree even if it is in “Architecture” or “Architectural Studies.” Those degrees are not creditable by the NAAB and are generally called “pre-professional degrees”. The proposed UMKC

² kcrising.com

B.Arch. degree will be a five-year degree of Architecture at the bachelor's level and can be NAAB-accredited (minimum of 150 credit hours).

The B.Arch. is the most stream-lined pathway for a student to become an architect. Students who graduate with the proposed B.Arch. degree from UMKC will be able to move directly into the architecture profession after graduation, on the path toward becoming a registered architect. Career path options for a student without an accredited "professional degree", such as a B.Arch., include graphic design, interior design, residential design, landscape design, drafting, modeling, development, marketing, sales, management, planning, and consulting. To become an architect, a student with a "pre-professional degree" would have to also complete an accredited "professional degree" – generally the M.Arch. following their B.A. or B.S.

Kansas City Architectural Community Support

Focus group meetings with local architecture firms and associations, including Burns & McDonnell, Odimo, AIA, Populous, DRAW, Gould Evans, Helix, HOK, Gastinger Walker, Focal Design, and NOMA, have highlighted the need for a public architecture program in the state of Missouri, specifically the Kansas City metropolitan area (see meeting notes in the attachments). During these focus group meetings, all the firms showed great excitement over the possibility of having an architecture school at UMKC. The local architects highlighted a number of aspects that a UMKC program would have which would distinguish it from other regional architecture programs:

- Potential for engagement with the local metropolitan industry which could provide community-based projects and internship possibilities in the same city as the university.
- The new SSE structure, which houses the current Architectural Studies program in the Division of Natural and Built Environment (NBE), allows for cross-disciplinary experiences with civil engineering, urban planning, and environmental science providing a unique interdisciplinary approach that is currently lacking in architectural education.
- The Kansas City architecture firms expressed the desire to be involved with the program and were all willing to supplement the faculty as adjuncts and instructors, keeping the total number of new full-time hires manageable.
- The Kansas City architecture firms are desperate for talent. With an estimated steady-state total enrollment of 250 students and the current SSE retention rate and rate of graduates staying in the area, it is anticipated 160-200 of these graduates (in the five-year cohort) will remain within the metro, providing the local firms with approximately 32-40 graduates per year.

The person responsible for the B.Arch. program proposal and planning is Dr. Katherine Bloemker, Assistant Dean of Academic Affairs in the School of Science and Engineering. John Eck, Full Teaching Professor of Architecture has been instrumental in the curriculum development and accreditation planning. Professor Eck will remain

responsible for architecture specific academic activities for the program until a program director is hired.

Contact Information: Phone: (816) 235-5639, E-mail: bloemkerk@umkc.edu.

2. University Mission & Program Analysis

2.A. Alignment with University Mission & Goals

The goals of the proposed B.Arch. program (which are shown in more detail in section 5.D.) are built from the main foundational values of architecture as spelled out by NAAB³: Design; Environmental Stewardship and Professional Responsibility; Equity, Diversity, and Inclusion; Knowledge and Innovation; Leadership, Collaboration, and Community Engagement; and Lifelong Learning. These themes mirror the UMKC Mission Statement in several ways, as can be seen in the following bolded text:

*“As an urban research university, our mission at the University of Missouri-Kansas City is to promote **learning** through the discovery, preservation and dissemination of **knowledge** of public value across a broad spectrum of disciplines and fields of study. UMKC celebrates the individual and embodies **diversity** and **inclusion** by intertwining these goals with **innovation** to enable transformational impact aimed at bringing cultural, social, health and economic prosperity to the metropolitan, regional and global communities we serve.”*

In addition, the students and graduates from the proposed B.Arch. program will directly support the University mission in two major ways (specifically note the underlined sections shown previously in the mission statement). Firstly, this program promotes the students to participate in interdisciplinary education which is highlighted in the third line of the mission statement. Secondly, the students and graduates of this program will bring innovation to the metropolitan area with specific objectives of bringing economic prosperity to the Kansas City community, which directly aligns with the final few lines of the University mission.

The current Strategic Plan at UMKC has five pillars, each containing a number of specific goals. The proposed B.Arch. program specifically addresses the pillars and goals of the strategic plan in the following areas:

- Pillar 1: *Provide exceptional student learning, success and experience*
 - The present Architectural Studies partnership deflates UMKC retention numbers since students start at UMKC and then leave for KSU. A full program at UMKC will increase retention numbers (Goal 1.1).
 - The B.Arch. degree program will provide for regional workforce needs (Goals 1.2 and 1.5).

³ [National Architectural Accrediting Board \(naab.org\)](http://naab.org)

- This program will provide an affordable choice for KC regional students (Goal 1.3).
- Pillar 2: *Become a thriving discovery enterprise*
 - New faculty will support built environment research and innovation in KC smart city initiatives (Goal 2.3).
- Pillar 3: *Transform our community and region with impactful engagement*
 - The B.Arch. program would directly contribute to the Architecture and Engineering cluster of firms as identified by KC Rising and promoted by the regional KC Global Design partnership (Goal 3.1 and 3.6).
 - The B.Arch. program will enhance community and neighborhood engagement through studio projects in KC and Missouri communities building on past Architecture and Urban Planning success (Goal 3.2).
- Pillar 4: *Foster an environment of invigorating multiculturalism, globalism, diversity and inclusion*
 - Current architecture programs in the region are not located at affordable institutions in urban locations. This program will open up pathways to the architecture profession for people unable to leave the Kansas City metropolitan area (Goal 4.1).
 - The architecture profession in greater Kansas City needs a more robust workforce. With its high concentration of architecture firms, Kansas City is the right location to provide an architecture program that will increase talent in the profession (Goal 4.5).

The proposed B.Arch. program directly supports one of SSE's goals of increasing degree and discipline options in the STEM fields and is highly supported by both Dean Truman and Provost Lungren. See the attached Letters of Support: [DeanTrumanArchitectureLOS.pdf](#) & [2023 1004 B.Arch Provost LOS](#).

2.B. Duplication & Collaboration within Campus, Across System

There are currently no NAAB-accredited degrees in Architecture (B.Arch., M.Arch., or D.Arch.) at a public university in the state of Missouri. Missouri is the largest state in the United States without a degree program in a public university system. In addition, Kansas City is one of the largest cities in the United States without an accredited architecture program within the core of the metropolitan area. There are two accredited programs in the state of Missouri, at Washington University and Drury University, both private institutions; and there are two accredited programs in the state of Kansas, one at KU and one at KSU. The Washington University program offers a B.S. or B.A. in Architecture, which is considered a "pre-professional degree." Students in those programs then have to enroll in the M.Arch. program which is accredited by NAAB. In total these students will end up taking a six- or seven-year program (4+2 or 4+3) depending on the undergraduate degree earned. KU and KSU only have the M.Arch., so students either go directly into the 170-180 credit hour program from the beginning

(which they market can be done in five years), or students must go through a different undergraduate four-year program and then take an additional two to three more years to obtain the accredited M.Arch. degree.

UMKC presently has a cooperative relationship with the program at KSU that has been in place since 1987. In this cooperative program UMKC teaches the first two years of the professional degree. After two years, students go to KSU and graduate with the M.Arch. degree. With the implementation of this new B.Arch., it is planned that the current Architectural Studies program and agreement with KSU will no longer exist. However, in the future, a bachelor's-to-master's coordinated program with regional architecture programs, such as KSU and the University of Kansas (KU), who only offer M.Arch. degrees could be explored. The Dean of SSE, Kevin Truman, has already started conversations with administrators at both KU and KSU regarding these potential future collaborations.

UM-Columbia currently has a bachelor's degree in Architectural Studies; however, this is not a professional architecture degree and students still need to complete another two years of studio in a professional program (such as KU or KSU) to get the NAAB-accredited degree which is licensable. Missouri S&T currently has a degree in Architectural Engineering, however, again, this not a professional architecture degree and graduates cannot be licensed architects without an NAAB-accredited degree.

Dean Truman, reached out to UM-Columbia regarding the proposed B.Arch. program at UMKC and to explore potential partnerships. He had conversations with both the Dean of the College of Arts and Sciences, Cooper Drury, and the Chair of the Architectural Studies program, Lyria Bartlett. If approved, the faculty and administration at UMKC look forward to continued conversation and exploration of future collaborations with the UM-Columbia Architectural Studies program and its faculty.

The following table shows a comparison of Public Architecture Programs in the United States:

Institution	State	Enrollment		
		Undergraduate	Graduate	Total
University of Arkansas, Fayetteville	AR	821	12	833
Colorado State University	CO	170		170
University of Colorado Boulder	CO	591		591
University of Colorado, Denver	CO	382	349	731
Iowa State University	IA	1,762	163	1,925
University of Illinois Urbana - Champaign	IL	399	158	557

University of Illinois-Chicago	IL	1,254	171	1,425
<i>Kansas State University</i>	KS	523	317	840
<i>University of Kansas</i>	KS	822	119	941
<i>Univ. of North Carolina, Charlotte (Peer School)</i>	NC	235	99	334
North Dakota State University	ND			0
University of Nebraska, Lincoln	NE	498	63	561
<i>University of Cincinnati (Peer School)</i>	OH	2,078	188	2,266
<i>Oklahoma State University</i>	OK	248		248
<i>University of Oklahoma</i>	OK	632	152	784
<i>Portland State University (Peer School)</i>	OR	258	36	294
South Dakota State University	SD			0
University of Memphis	TN	108	9	117
Texas A&M	TX	1,241	331	1,572
Texas Tech	TX	720	92	812
University of Texas Austin	TX			0
University of Texas, San Antonio	TX	676	140	816
University of Utah	UT	531	130	661

The schools highlighted in bold italics are peer schools to UMKC; some regional public institutions are indicated as such. As can be seen in the attached Pro Forma ([B-Architecture ProForma 071823.xlsx](#)) and Proposed Curriculum ([Proposed Curriculum 5 yr B Arch 6-21-23.xlsx](#)), UMKC estimates approximately 250 students by year 5. The undergraduate enrollments at the peer and regional public institutions fall in line with current projections for the new UMKC program (note: Portland State at 258, Oklahoma State at 248, and UNC-Charlotte at 235).

3. Business-Related Criteria & Justification

3.A. Market Analysis

3.A.1. Rationale & Workforce Demand for the Program

Starting a B.Arch. program at UMKC would be a step toward providing the necessary workforce for KC Global Design, a regional workforce initiative of the Kansas City Civic

Council and the Chamber of Commerce. The Kansas City metropolitan area has a high concentration of architecture employment. In fact, Kansas City is one of the ten leading metros in the United States for employment demand in the architecture industry. According to the U.S. Bureau of Labor Statistics, the location quotient for Architects in the KC Metro is 1.72⁴. In addition, according to a Labor Market Analysis in 2018, the architecture industry is growing twice as fast in Kansas City as compared to the rest of the nation⁵.

The Lightcast (formerly Burning Glass) reports from 2022 show job growth for graduates with a bachelor's or master's degree in architecture in both the Kansas City area, as well as across Kansas and Missouri, of almost 5% from 2020-2030. In a recent 21-month period, there were 540 and 210 job postings for architecture jobs requiring a bachelor's and master's degree, respectively. It should be noted that the job postings requiring a bachelor's degree highly outweigh the postings requiring a master's degree, emphasizing not only the need for a B.Arch. program in the region, but also the fact that graduates with a B.Arch. are still a highly sought commodity in the architecture profession.

The Lightcast reports from 2023 show a 21.8% increase in architecture jobs in the Kansas and Missouri region from 2012 to 2032. This increase exceeds the national average of 20.3%. The state of Missouri accounted for 68% of those regional jobs in 2012. In the two-state region from 2012 to 2032 there are over 70 monthly job postings and 90 estimated average monthly hires in the architecture profession. Job opportunities span a number of companies including the Kansas City-based Burns & McDonnell, HNTB, and Black & Veatch.

When looking exclusively at the occupation of architect, excluding other adjacent occupations, Lightcast reported over 2,000 jobs in Missouri in 2021. Of the 2,187 architect jobs in Missouri, 57% (1,257) were in the Kansas City area which is the highest demand of any metropolitan area in the state. Lightcast also reported an average annual compensation of \$79,123 for architects in Missouri which, although slightly below the national average, is high for the state.

Furthermore, gender diversity in the architecture profession lags nationally and regionally. In 2022 the American Institute of Architects (AIA) had 96,710 members with only 26% of those members being women⁶. The Lightcast reports also show that the Kansas and Missouri region trends similarly in gender diversity in the architecture profession, with over 75% male. The current UMKC architecture and urban planning programs already partner with local Kansas City architecture organizations, including, the Kansas City Chapter of the National Organization of Minority Architects (NOMA)⁷ and the Kansas City Chapter of AIA. These local chapters are continually striving for

⁴ <https://data.bls.gov/oes/#/occGeo/One%20occupation%20for%20multiple%20geographical%20areas>

⁵ MARC KC Global Design Talent to Industry Exchange – A Labor Market Analysis of the KC Global Design Industry, May 2018

⁶ [Year in Review 2022 - AIA](#)

⁷ [Home | NOMAKC](#)

equal opportunity in the architecture profession in the Kansas City metropolitan area. With the introduction of a B.Arch. program at UMKC, it is expected that these partnerships will continue to broaden the access of architecture education to students in the region.

Local architecture firms, including Burns & McDonnell, Odimo, Populous, DRAW, Multistudio, and Focal Design, are desperate for more architecture graduates and have clearly stated the need for a public architecture program in the state of Missouri, specifically the Kansas City metropolitan area. See the attached letters of support.

3.A.2. Student Demand for the Program

In the 2013 ACT report of students interested in architecture, there were 400 students in Missouri with ACTs over 23 who were interested in architecture. In the 2016 ACT lists, there were over 420 Missouri students interested in architecture. A more recent ACT report from 2023 showed 1,679 total students from Kansas and Missouri expressing interest in architecture, spanning the 2024, 2025, and 2026 graduation classes, with 57% (965) of those students from the state of Missouri. To meet the enrollment goals of 50-75 students per class, UMKC only needs to capture 12-18% of these Missouri students each year. This goal is very achievable in a well-marketed program in Kansas City, especially since these students are currently required to go out-of-state for a public, NAAB-accredited architecture program providing the opportunity for licensure, since there are currently none in the state of Missouri.

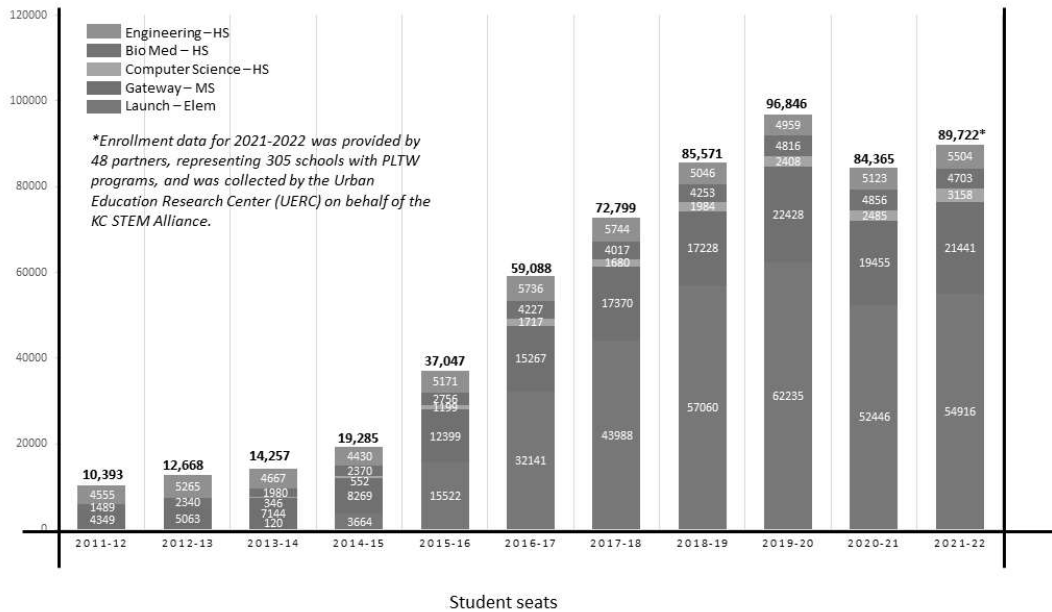
The KC Stem Alliance and Project Lead the Way (PLTW) programming provide additional evidence of student demand. The KC STEM Alliance is an independent agency managed through the School of Science and Engineering at UMKC and serves as SSE's primary K-12 outreach program. Funding to support the Alliance comes from a multi-year grant from the Ewing Marion Kauffman Foundation and from area STEM-related companies, grants, and other non-profit agencies and organizations.

The KC STEM Alliance is currently serving more than 90,000 students in the area with programming such as Project Lead the Way (STEM coursework and programming for area K-12 schools) and KC FIRST (competitive robotics programming), as well as several other programs aimed to engage young people in STEM learning.

The PLTW high school program consists of three separate curriculum tracks: Biomedical, Engineering, and Computer Science. The following figure shows the number of Kansas City area high school students participating in PLTW in the Biomedical Track, the General Engineering Track (which includes Architecture), and the Computer Science Track.⁸

⁸ <https://www.kcstem.org/>

PLTW Student Enrollment Growth in Kansas City



As can be seen in the turquoise blue in the previous figure, over the past five years there have been an average of over 5,000 high school students in the Kansas City metropolitan area who participated in the General Engineering track in PLTW.

PLTW Engineering Courses cover a wide range of topics, including architecture. A popular course which is generally taught to high school juniors is called Civil Engineering and Architecture (CEA). This course specifically covers architecture and civil engineering topics such as building design, site design, and development. Students in the course also gain knowledge in the use of 3D architectural design software.

The following table shows enrollment numbers for the Civil Engineering and Architecture course in the Kansas City region for the past five academic years.

Year	Civil Engineering & Architecture (CEA) Course Enrollment
2017-2018	415 students
2018-2019	389 students
2019-2020	419 students
2020-2021	440 students
2021-2022	352 students

While the numbers of districts and schools that offer the curriculum varies slightly from year to year, in 2021-2022, twenty-two area high schools representing fourteen school districts in the Kansas City metro area provided the CEA course.

KC Stem Alliance also hosts a Civil Engineering & Design Career Day in the fall each year in partnership with the Kansas City Chapter of the AIA and the Center for Architecture & Design. Students at this career day visit architecture firms across the city.

The following table shows attendees at the Civil Engineering & Design Career Day from 2018 to the present.

Year	Civil Engineering & Design Career Day Attendance
2018-2019	202 students
2019-2020	165 students
2020-2021	No event due to pandemic
2021-2022	71 students
2022-2023	165 students

The sizable enrollments in these opportunities confirm that there are numerous high school students in the KC metro area who have shown real interest in the architecture field. These are the students that would benefit the most from a public architecture program in Missouri, specifically in Kansas City. Currently these students must leave the KC metro area, and often the state of Missouri, in order to pursue their architecture education. Even worse, some of these students might have to choose a different educational path due to no affordable, public option within their city or state.

Table 1a. Student Enrollment Projections (anticipated total number of students enrolled in the program during the first five fall semesters following implementation.)

Year:	1	2	3	4	5
Full-time	50	115	167	209	242
Part-time	0	0	0	0	0
Total	50	115	167	209	242

Table 1b. New Student Enrollment Projections (anticipated number of students enrolled in the program during the first five fall semesters following implementation that are new to the University.)

Fiscal Year:	1	2	3	4	5
Full-time	50	115	167	209	242
Part-time	0	0	0	0	0
Total	50	115	167	209	242

Table 1c. Projected Number of Degrees Awarded

Year:	1	2	3	4	5	6	7	8	9	10
# of Degrees Awarded	0	0	0	0	20	31	31	31	31	31

3.B. Financial Projections

See the attached Pro Forma Excel document ([B-Architecture ProForma_071823.xlsx](#)) with a steady-state enrollment by year 6 of 252 student. In addition, a 50% enrollment Pro Forma is provided ([B-Architecture Proforma_092123_37_per_yr.xlsx](#)) with a steady-state enrollment by year 6 of 124 students.

3.B.1. Additional Resources Needed

The B.Arch. program is planned to be housed in Katz Hall, which has enough space to hold the size of program predicted in the first five years. In addition to the space in Katz Hall, SSE currently occupies five buildings, with additional space in three more buildings. Some of this space could be utilized for the B.Arch. program if needed. There will be the need for some minor renovations of the space in Katz to accommodate the new program – specifically some larger studio spaces. Presently, there is enough space in Katz Hall to expand to at least three years of architectural studio. Under-utilized classroom space on the second floor of Katz Hall could be converted to studio space as the program builds into year 4 and year 5.

The NAAB requires that most architecture courses in an accredited program are taught by licensed architects (with a B.Arch. or M.Arch. degree). It is important to note the current urban planning faculty are not qualified to teach architecture courses beyond areas such as site planning and urban design. The present Architectural Studies program needs a hire to direct new program development through the NAAB new program accreditation process. As an externally-accredited degree program, UMKC's B.Arch. program would need to hire one new professor of architecture at the associate level to coordinate architecture program candidacy, relations with the professional community in Kansas City, and multiple NAAB visits. With each new year in the B.Arch. program, it would be necessary to hire at least one new faculty member at the assistant tenure-track or non-tenure-track level until steady-state is reached in year 6, depending on the enrollments. Additional adjunct studio instructors and technical course instructors will be hired from professionals currently working in greater Kansas City. The strength of the architecture profession in Kansas City provides ample resources for this new program to supplement full-time faculty with adjunct, working professionals who have the necessary credentials for a successful accredited program.

3.B.2. Revenue

The sources of revenue include tuition and fees for new students. No financial support is being provided by the university. No external funds are being used.

3.B.3. Net Revenue

Annual revenue will exceed annual expenses and the program will break even in the first year, including in the 50% enrollment scenario.

Table 2. Financial Projections for Proposed Program for Years 1 Through 5.

	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
1. Expenses per year						
A. One-time						
<i>New/Renovated Space</i>	0	0	0	0	0	0
<i>Equipment</i>	0	0	0	0	0	0
<i>Library</i>	0	0	0	0	0	0
<i>Consultants</i>	0	0	0	0	0	0
<i>Others</i>	0	0	30000	51500	62250	15000
Total one-time	0	0	30000	51500	62250	15000
B. Recurring						
<i>Faculty</i>	80000	167280	302756	508319	608327	620493
<i>Staff</i>	0	66300	67626	68979	70358	71765
<i>Benefits</i>	29240	84498	127071	196344	232694	237348
<i>Equipment/Supplies</i>	0	15300	26010	26530	27060	27602
<i>Library</i>	0	0	0	0	0	0
<i>Other (Computing, Maintenance, Repair, Professional, Travel, Misc.)</i>	63000	77010	88954	90733	92547	94399
Total recurring	172240	410388	612417	890905	1030988	1051608
Total expenses (A+B)	172240	410388	642417	942405	1093238	1066608
2. Revenue per year						
<i>Tuition/Fees</i>	0	513621	1204955	1784800	2273985	2689512
<i>Institutional Resources</i>	0	0	0	0	0	0
<i>State Aid – CBHE</i>	0	0	0	0	0	0
<i>State Aid – Other</i>	0	0	0	0	0	0
Total revenue	0	513621	1204955	1784800	2273985	2689512
3. Net revenue (loss) per year	(172240)	103233	562537	842395	1180747	1622904
4. Cumulative revenue (loss)	(172240)	(69007)	493531	1335926	2516673	4139577

3.B.4. Academic and Financial Viability

As can be seen in the 100% enrollment scenario Pro Forma, Year 7 expenditures equal approximately \$1.1M. A headcount of 105 students brings in revenues of approximately

\$1.1M. This would be the break-even scenario for minimum financial viability even if hiring and expenditures continued assuming a 250-student head count.

Table 3. Enrollment for Academic and Financial Viability

Viability	Minimum Enrollment
Academic	105
Financial	105
Overall	105

The 50% enrollment scenario Pro Forma shows adjusted expenditures for lower enrollments. In that model, Year 7 expenditures equal approximately \$870,000 which would require a headcount of 82 students to break-even.

3.C. Business Plan: Marketing, Student Success, Transition & Exit Strategies

3.C.1. Marketing Plan

UMKC and SSE recruiting units across campus will support marketing of the B.Arch. program to area high school students. Due to the KC STEM Alliance and UMKC partnership, SSE can market directly to the students who attended the Design Career Day as well as the students who have enrolled in the PLTW CAE course. The B.Arch. program will also be included in future marketing (mass email, printed pieces, websites, social media). SSE has a dedicated MCOM staff person who works in conjunction with SSE to market current degree programs.

Once the program is formally launched, the Dean of SSE will appoint a Degree Program Director or Chair who will serve as the point person to work with MCOM regarding recruitment and marketing efforts. At the preliminary stage to ensure its successful start, the Dean (Kevin Truman) and the Assistant Dean (Katherine Bloemker) will coordinate with MCOM directly and serve as the point persons for the proposed B.Arch. program.

3.C.2. Student Success Plan

In order to ensure high retention and graduation rates for architecture students, there are a number of resources that will be available to all students including advising, career services, support services, faculty mentorship, research opportunities, and student organizations. Each of these resources is laid out in detail in the following:

- **Roo Advising and Career Services**
 - o Architecture students will have access to all resources offered in Roo Advising and Career Services.
 - **Roo Advising** provides centralized, professional advisors ensuring that the students will remain on track for a five-year graduation. They will also advise the students on the architecture opportunities

and the professional and career advantages of pursuing the B.Arch. degree.

- **Career Services** professionals are available to help the students explore and prepare for applying and placement in internships and jobs. The Bloch School of Management and the School of Science and Engineering have partnered on Career Fairs for several years with over 140 companies attending the last career fair. This will only grow with the inclusion of architecture firms from the Kansas City region at the Career Fair.
- **SSE Support Services**
 - The B.Arch. students will have access to all current SSE support services.
 - The **SSE Student Affairs** team is dedicated and works in concert with the UMKC Centralized Services. The SSE Student Affairs Team has **direct, connected access to the students, faculty, companies and other UMKC schools** and can provide a personalized approach consisting of guidance, connecting, and preparing individual students, academically and professionally.
 - **Guiding** students through their five-year curriculum.
 - **Connecting** the students with architecture firms and internships.
 - See below for a description of SSE's Career Connections Program.
 - **Preparing** each student with customized professional school preparation and career guidance.
 - Since the implementation of the SSE Student Affairs team, SSE has seen improved retention from **50% in 2008 to an average of 79%** from 2016-2021. SSE's goal has been to be a "**pump and not a filter**"; so, every action is with that goal in mind. Every student admitted and entering SSE should be a future graduate.
 - **Faculty mentors**
 - Each B.Arch. student will be assigned a faculty mentor to help with career and/or internship guidance.

In order to help B.Arch. students with job placement, there are a number of resources that will be available to all students including career services, career connections, career fairs, and internship opportunities. Each of these resources is laid out in detail in the following:

- **UMKC and SSE Career Services**
 - B.Arch. students will have access to all services currently offered in the UMKC Career Services.

- Architecture Students will have access to all services provided by the SSE Student Affairs Team and their faculty mentors. With the help of the SSE Student Affairs Team over the last five years:
 - There has been a 79% average retention of SSE students.
 - 80% of all SSE Juniors and Seniors have interned or had research opportunities.
 - 90+% of all SSE Seniors have obtained jobs as of graduation.
- **SSE's Career Connections Program**
 - All students in SSE (and UMKC) including those within the architecture program have the ability to participate in SSE's Career Connections program. The SSE Student Affairs team brings in professionals from companies to provide insights into their day-to-day jobs (work) as architects. These degree program related companies and their employees are used to help students explore as many career possibilities as possible. There will be a variety of regional, architecture firms included in the Career Connections Program.
- **Career Fairs**
 - One of the best places for students to connect with potential employers is career fairs. SSE participates in a career fair each year with the Bloch School of Management.
 - The last career fair held on campus for just business and engineering had over 140 companies and has proven to be an exceptional resource for students to connect directly with the regional and national job market.
 - Once the B.Arch. program is in place, more architectural firms will be invited to this career fair.
- **SSE's high employment placement rates**
 - It is expected that the architecture students will track with all other SSE professional disciplines (such as engineering), which historically have extremely high employment placement rates, averaging 90%+ over the last five years, with placements locally and nationwide.
 - This placement rate is due to all the prescribed, personal UMKC and SSE support services, possible internships, career connections, industrial capstone design projects, advisory boards and more.

3.C.3. Transition Plan

The individual primarily responsible for the B.Arch. program proposal is Assistant Dean Katherine Bloemker. However, once the program is implemented a Degree Program Committee (DPC) will be formed comprised of current faculty, including Professor John

Eck, with expertise in the architecture field. Having this standing committee will ensure a seamless transition in the event that any of the primary individuals can no longer fulfill the necessary duties for managing the program's day-to-day needs.

3.C.4. Exit Strategy

If the situation arises that the program is underperforming expectations and financial viability is compromised, the Degree Program Committee (DPC) will be charged with providing a plan of action to improve enrollments and/or decrease expenditures. A three-year window will be allowed following the implementation of the action plan. Following the three years, if the revenues from the program are still not exceeding the expenditures, the Dean will decide whether a hiatus or discontinuation of the program is needed.

4. Institutional Capacity

The B.Arch. program will require some initial resources (see the attached Pro Forma: [B-Architecture ProForma_071823.xlsx](#)) to begin matriculating students, but these are minimized since UMKC already offers the first two years of curriculum. SSE and UMKC already have the necessary space the program needs for the first three to four years. The program will be revenue positive from year one and will only grow in net revenue each of the following three years at which time SSE will make the decision whether to go steady-state in size or continue growing.

SSE will need to add faculty expertise and staff for the B.Arch. program to be viable. However, this burden is manageable because, being in Kansas City, SSE can rely on community experts as adjunct faculty that have expertise in areas where SSE faculty may not. These adjuncts provide a real-world education that students can benefit from due to UMKC's proximity to so many Kansas City based architecture firms. Additionally, these adjuncts often provide internships and career guidance that is extremely beneficial for the students and ultimately SSE's recruitment efforts.

This degree is in large demand within Kansas City and the state of Missouri. SSE's (and therefore UMKC's) enrollment will increase with the offering of this new degree with manageable up-front investments.

5. Program Characteristics

5.A. Program Outcomes

The following six Student Learning Outcomes (SLOs) are required by NAAB⁹:

1. Health, Safety, and Welfare in the Built Environment

⁹ [National Architectural Accrediting Board \(naab.org\)](http://naab.org)

- Students understand the impact of the built environment on human health, safety, and welfare at multiple scales, from buildings to cities
2. Professional Practice
 - Students understand professional ethics, the regulatory requirements, the fundamental business process relevant to architecture practice in the United States, and the forces influencing change in these subjects
 3. Regulatory Context
 - Students understand the fundamental principles of life safety, land use, and current laws and regulations that apply to buildings and sites in the United States, and the evaluative process architects use to comply with those laws and regulations as part of a project
 4. Technical Knowledge
 - Students understand the established and emerging systems, technologies, and assemblies of building construction, and the methods and criteria architects use to assess those technologies against the design, economics, and performance objectives of projects
 5. Design Synthesis
 - Students develop the ability to make design decisions within architectural projects while demonstrating synthesis of user requirements, regulatory requirements, site conditions, and accessible design, and consideration of the measurable environmental impacts of their design decisions
 6. Building Integration
 - Students develop the ability to make design decisions within architectural projects while demonstrating integration of building envelope systems and assemblies, structural systems, environmental control systems, life safety systems, and the measurable outcomes of building performance

5.B. Program Design & Content

The course sequence and mapping of courses to the program SLOs can be found in the attachment: [Arch Curriculum Map 5-2-23.xlsx](#). Note that in the curriculum map, courses where the outcome is introduced are marked with an **I**, courses where the outcome is continuing to be developed are marked with a **D**, and courses where the outcome should be mastered and subsequently assessed are marked with an **M/A**.

5.C. Program Structure

The proposed UMKC B.Arch. degree would consist of a five-year (150 credit hour) program. The five-year curriculum including proposed teaching responsibilities can be found in the attachment: [Proposed Curriculum 5 yr B Arch 6-21-23.xlsx](#).

5.C.1. Program Structure Form

1. **Total Credits Required for Graduation:** 150

2. **Residence requirements, if any:** None

3. **General education**

a. Total general education credits: 33*

i. *Additional 3 credit hours for the MO Constitution requirement.

Courses (specific course or distribution area and credit hours):

Course	Hrs	Course	Hrs	Course	Hrs
MATH 110 Pre-Calculus Algebra (<i>Math</i>)	3	Critical Thinking in Arts & Humanities	3	First Semester Experience	3
POL-SCI 210 OR HIST 101 OR HIST 102 - MO Const. Requirement	3*	Critical Thinking in Social & Behavioral Sciences	3	Written Communication I	3
Critical Thinking in Natural & Physical Sciences	3	Culture and Diversity	3	Oral Communication	3
		Civic Engagement	3	Written Communication II	3

4. **Major Requirements**

a. Total credits specific to degree: 117*

i. *71 credit hours of new courses

Courses (specific course or distribution area and credit hours):

Course	Hrs	Course	Hrs	Course	Hrs
<i>Studio Seminar</i>	1*	ENV-DSN 250 Arch History 1	3	<i>Professional Support Elective</i>	3*
ENV-DSN 201 Design Studio 1	4	ENV-DSN 251 Arch History 2	3	<i>Professional Support Elective</i>	3*
ENV-DSN 202 Design Studio 2	4	ENV-DSN 252 Arch History 3	3	<i>Professional Support Elective</i>	3*
ENV-DSN 301 Design Studio 3	5	UPD 499C Digital Architecture 1	1	<i>Professional Support Elective</i>	3*
ENV-DSN 302 Design Studio 4	5	UPD 499E Digital Architecture 2	1	<i>Professional Practice</i>	3*
<i>Design Studio 5</i>	5*	<i>Digital Architecture 3</i>	1*	UPD 260 Planning Elective	3
<i>Design Studio 6</i>	5*	PHYS 210 General Physics	4	UPD 280 Planning Elective	3
<i>Design Studio 7 (or Study Abroad)</i>	5*	ENV-DSN 433 Building Construction Systems 1	3		
<i>Internship</i>	10*	<i>Building Construction Systems 2</i>	3*		

<i>Design Studio 9</i>	5*	ENV-DSN 347 Building Structures 1	4		
<i>Design Studio 10</i>	5*	Building Structures 2	4*		
<i>Project Programming</i>	3*	Environmental Systems 1	3*		
<i>Design Communications</i>	3*	Environmental Systems 2	3*		

5. Free elective credits

a. Total free elective credits: 0*

i. *There are no free electives, however there are 12 credit hours of professional support electives and 6 credits of planning electives that the students can select from a number of options.

6. Requirement for thesis, internship or other capstone experience:

All students are required to complete an internship during the 4th year spring and summer that counts for 10 credit hours toward the degree.

7. Any unique features such as interdepartmental cooperation:

None.

5.D. Program Goals and Assessment

The goals of the program (shown in the following table) are built from the NAAB shared values of the discipline and profession. The program goals focus on the six main foundational values of architecture¹⁰: (1) Design, (2) Environmental Stewardship and Professional Responsibility, (3) Equity, Diversity, and Inclusion, (4) Knowledge and Innovation, (5) Leadership, Collaboration, and Community Engagement, and (6) Lifelong Learning.

Goal 1:	Students have the fundamental design knowledge and ability to design better, safer, more equitable, resilient, and sustainable built environments.
Goal 2:	Students understand the impact of their work on the world and on public, health, safety, and welfare and understand the importance of ethics in their profession.
Goal 3:	Students commit to equity and inclusion in all aspects of their work, continually seeking fair, diverse, and just solutions.
Goal 4:	Students create and disseminate knowledge in response to ever-changing conditions, striving for continuous improvement of the discipline.
Goal 5:	Students practice in collaborative, inclusive, creative, and empathetic enterprise in the community.
Goal 6:	Students value lifelong learning through understanding the architect’s role in cultural, social, environmental, economic, and built contexts.

¹⁰ [National Architectural Accrediting Board \(naab.org\)](http://naab.org)

Achievement of the program goals is assessed by the SLOs shown in section 5.A. Each of the six outcomes has specific program goals mapped to it as follows:

1. Health, Safety, and Welfare in the Built Environment - Goals: 1, 2
2. Professional Practice - Goals: 2, 5
3. Regulatory Context - Goals: 3, 4
4. Technical Knowledge - Goals: 1, 6
5. Design Synthesis* - Goals: 1, 2, 3, 4, 5, 6
6. Building Integration*Goals: 1, 2, 3, 4, 5, 6

*Outcomes 5 and 6 need to be assessed at the ability level, not just the understanding level, which is why they map to all six goals.

The SLOs are assessed in the courses listed on the curriculum map with the letter **A** (see attachment: [Arch Curriculum Map 5-2-23.xlsx](#)). Assessment will be done each year in these courses. Data for assessment is collected from the instructor of each course. Depending on the course, this data could be performance on a project, an exam question, a presentation, or a homework assignment. This performance data is provided to the program coordinator (Professor John Eck) and the assessment coordinator (Assistant Dean Katherine Bloemker). Each student activity performance is broken into 3 categories (unacceptable, acceptable, and excellent). The target for achievement in all courses is that 80% of the students meet the acceptable or excellent level for the student activity relating to the particular outcome. The Degree Program Committee (DPC) will be responsible for program oversight.

In addition to regular campus assessment from HLC, the B.Arch. program will undergo routine accreditation through the NAAB. Assessment for the NAAB will be done in the same manner as was already described.

It is estimated that the B.Arch. program will mirror many of the other professional programs in SSE when it comes to retention, graduation, and job placement. Current SSE programs (specifically engineering and computer science) have retention rates of approximately 80%, six-year graduation rates of 80%, job placement rates of 90%+ at graduation, and job placements rates of 95-100% at six months post-graduation. These are the expected rates for the proposed architecture program.

Much like many of the engineering programs currently housed in SSE, the architecture profession requires licensure in order to practice in the field. It is expected that 95-100% of graduates in this program would achieve architecture licensure post-graduation.

5.E. Student Preparation

High school students planning to apply to the B.Arch. program are strongly encouraged to take a college preparatory program including:

- ½ unit of Trigonometry (may be incorporated in another course)
- Algebra
- Geometry
- 4 units of English
- History
- 3 to 4 units of science, including physics
- 3 to 4 units of social studies
- 2 to 4 units of foreign language
- Courses in both freehand drawing and technical drawing are highly encouraged
- Pre-calculus and/or calculus is highly encouraged

First-time college student applicants who do not meet the above criteria but do meet UMKC general admission requirements will have their applications reviewed by a committee for admission. Applicants who are not admitted to the B.Arch. program but do meet UMKC general admission requirements may be admitted to University College.

Students without the prerequisite preparation must take the needed coursework before enrolling in courses required for the bachelor's degree. Students seeking re-admission must have been in good academic standing when last enrolled. Otherwise, re-admission requires a formal review by the undergraduate program committee.

Transfer applicants must have at least 24 credits of transferable college credit, an overall 2.0 GPA on a 4.0 scale in all coursework, which includes repeated coursework, attempted at previous institutions. Transfer applicants without a 2.0 or higher college GPA must submit a petition for admission.

For International First-Time College (FTC): 3.0 GPA or higher from high school (and at least a 3.0 in any other post-high school academics, i.e. ESL programs); 5.5 IELTS (with at least a 5.0 in each section) or 61 TOEFL.

For International Transfer (TRN): same as TRN domestic in terms of GPA; if student has completed 24 academic credits or more at a US institution (not ESL) then they are exempt from the English proficiency requirement, otherwise it's the same as FTC.

5.F. Faculty and Administration

UMKC presently has two full-time faculty members in Architecture listed here:

- John Eck Full Teaching Professor
- Dominic Musso Instructor

If a start date of Fall 2024 is expected, it will be necessary to have at least one full-time licensed Architect hired by Summer 2024 to oversee the successful implementation of the program and coordinate directly with NAAB to ensure accreditation. The attached B.Arch. curriculum spells out exactly what professors will be required to cover the teaching responsibilities of the new architecture program. In the next five years, this will include a total of: at least two Senior tenured professor, four Junior tenure-track or NTT professors, and several adjunct professors. See the Pro Forma ([B-Architecture ProForma 071823.xlsx](#)) and the Proposed Curriculum with teaching needs ([Proposed Curriculum 5 yr B Arch 6-21-23.xlsx](#)).

Assistant Dean Katherine Bloemker will be the primary point person for the program throughout the approval process. In addition to Dr. Bloemker, a degree program committee (DPC) will be formed which will include Professor John Eck to help keep tracks of activities, students, and advising for the proposed B.Arch. degree.

5.G. Alumni and Employer Survey

SSE plans to complete senior exit and alumni surveys for the B.Arch. program, just as is done in all other externally accredited programs in the school. Currently, graduating seniors in the SSE programs are required to fill out a senior exit survey through Qualtrics. The survey asks about student outcomes, student experience, whether they have a job or are planning to go to graduate school, whether they plan to or have taken the licensing exam, and whether they plan to become licensed after their required years of experience is achieved.

Once per accreditation cycle an alumni survey is sent out to all alumni from the SSE programs. The survey asks about student outcomes, whether they have a job in the field, whether they have a graduate degree, and whether they plan to or have become licensed. In addition to these surveys, the Dean of SSE routinely hosts lunches for alumni engagement for the school. At these lunches the Dean gives a state of the school. In addition, the alumni are informed about continuing education opportunities and upcoming alumni events.

SSE also plans to create an advisory board for the B.Arch. program, as is currently done in all other externally-accredited programs in the school. The advisory board members will represent employers of the program. The advisory board members are involved in maintaining a strong program. Since the advisory board members have a personal interest in SSE, their participation in developing objectives assures them that SSE is an association with which they can be proud. Following the procedures currently used in SSE, the advisory board will meet twice per semester to discuss the state of the program. These meetings generally include a school update from the division head, an accreditation update, board committee reports, board focus points for the year, and other announcements. Once per year the advisory board meets with undergraduate students in each of their respective programs. In addition, the faculty in the programs also meet with their respective advisory boards once per year.

5.H. Program Accreditation

It is planned to have the B.Arch. degree accredited through the National Architecture Accreditation Board (NAAB). The NAAB accredits B.Arch., M.Arch., and D.Arch. degrees for professional licensure in Architecture. Initial discussions with NAAB have already occurred. Candidacy from NAAB is expected in 2025 which sets the program up for an initial accreditation visit in 2030. The following table spells out the entire timeline for program implementation and the NAAB accreditation procedure.

Step	Description	Date	UMKC	NAAB
1	Initiate Contact with the NAAB, confirm minimum expectations for initiating Eligibility for Candidacy visit	Fall 2023		X
2	Initiate Search for TT Architecture Hire (Program Director)	Fall 2023	X	
3	Submit Plan for Achieving Initial Accreditation Eligibility Requirement for NAAB*	Fall 2023		X
4	NAAB Eligibility Visit (Best to have successful Program Director hired by Summer 2024)*	Spring 2024		X
5	Application for Initial NAAB Candidacy (APR-C*)	Summer 2024		X
6	Architecture TT- Hire	2024-2025	X	
7	Feb-Mar 2025 Candidacy Visit	Spring 2025		X
8	Granting of NAAB Candidacy	Spring 2025		X
9	Architecture TT/NTT Hire	2025-2026	X	
10	Architecture TT/NTT Hire	2026-2027	X	
11	Review of Candidacy	Spring 2027		X
12	Review of Candidacy	Spring 2029		X
13	Request for Initial Accreditation	Fall 2029		X
14	Accreditation Visit	2030		X

6. Appendices

Curriculum and Assessment Documents

1. Five-year program curriculum with teaching responsibilities: *Proposed Curriculum 5 yr B Arch 6-21-23.xlsx*
2. Student Learning Outcome Curriculum Mapping: *Arch Curriculum Map 5-2-23.xlsx*

Financial Documents

1. Enrollment and Budget Spreadsheet: *B-Architecture ProForma 071823.xlsx*
2. Enrollment and Budget Spreadsheet (50% enrollment assumption): *B-Architecture Proforma 092123 37 per yr.xlsx*

Burning Glass/Lightcast Reports

1. See attachments in the folder titled: *B Arch Burning Glass-Lightcast Reports*

Letters of Support

1. Architecture Firms, see attachments in the folder titled: *Architecture Letters of Support*
2. Dean Truman, SSE: *DeanTrumanArchitectureLOS.pdf*
3. Provost Lundgren, UMKC: *2023 1004 B.Arch Provost LOS*
4. Meeting notes from Architecture Focus Group meetings: *Focus Group Notes May 2022.docx*