

Johnson County Community College Transfer Program to the University of Missouri-Kansas City School of Science and Engineering Division of Natural and Built Environment 2024-2025 Catalog Contact: School of Science & Engineering Phone: 816-235-2399 Email: <u>sse@umkc.edu</u> Homepage: https://sse.umkc.edu

The Associate of Science degree (A.S.) at JCCC is designed as a transfer degree. Student pursuing the A.S. may select courses that satisfy both the A.S. degree requirements and lower-division requirements for a bachelor's degree at four-year institutions. The elective hours within the A.S. allows students to complete additional general education and lower division courses required for specific majors. The A.S. degree requires the completion of 60 credit hours; please see JCCC A.S. degree requirements. **Meeting with a JCCC counselor is strongly recommended for the selection of appropriate courses.**

The Division of Natural and Built Environment UMKC offers the following degrees:

- Bachelor of Architecture
- Bachelor of Arts:
 - o <u>Urban Planning and Design</u>
 - o Environmental Studies
 - Bachelor of Science
 - o <u>Civil Engineering</u>
 - Earth and Environmental Sciences
 - Environmental Science Emphasis
 - <u>Geology Emphasis</u>
 - Physical Geography Emphasis

All UMKC undergraduate degrees require at least 120 credit hours, some programs may require more hours. Students must complete at least 30 credit hours at UMKC and at least 12 upper-division credit hours in their major department/program at UMKC to be eligible to receive an undergraduate degree from UMKC.

General UMKC Transfer Admission Requirements

• 2.25 or higher cumulative GPA (Students between 2.0-2.24 will have the opportunity to petition. Please contact Nate Jacobs in UMKC Admissions for the full policy).

*Credit/no credit may only be applied to elective coursework and will not apply towards UMKC's general education core or major requirements. (UMKC did allow Credit/No-credit or Pass/Fail for Spring 2020 coursework. Please see the specific program for transfer guidelines.)

- Equivalent courses can be repeated but all grades will be averaged for GPA calculation purposes and students will only receive credit for one attempt.
- Full transfer admission requirements can be found at: <u>https://www.umkc.edu/transfer/apply.html</u>

School of Science and Engineering Transfer Admission Requirements

 School of Science & Engineering admission requirements vary by major. Please visit <u>https://sse.umkc.edu/admissions/transfer-students.html</u> to read about the requirements for your program.

General Education Requirements for Transfer students:

All UMKC undergraduate students complete general education requirements. Completing an Associate of Arts (A.A.) degree or the Associate of Science (A.S.) in General Sciences at JCCC will satisfy all general education requirements at UMKC, including the Constitution requirement. The A.S. is a better option for most students wanting to transfer into SSE. JCCC students transferring to UMKC without completing the A.A. or A.S. will have the option to elect to complete either the UMKC Essentials or the Missouri Transfer (MOTR) Core 42 curriculum to meet general education requirements.

^To learn more about these two options and UMKC general education requirements, including how transfer coursework applies to specific general education requirements, please refer to <u>https://www.jccc.edu/student-resources/academic-counseling/transfer/files/transfer-guides/umkc-general-education.pdf</u>

It is the STUDENT'S RESPONSIBILITY to check for updates to all transfer information. This transfer guide is provided as a service and is updated as needed. Degree requirements at the four-year colleges are subject to change by those institutions. To ensure you have the most accurate up to date information about the program, it is imperative you meet with an advisor at the transfer institution.

Major/Course	UMKC Course	JCCC Course	Req. Fulfilled
Architecture (B.Arch)			
Survey of Design Professions	ENV-DSN 203	ARCH 120 Intro to Architecture	Major Req
Professional Support Elective	ARCH 401	ARCH 123 Architectural Principles	Prof Elective
Design Studio 1	ENV-DSN 201	ARCH 127 Intro to Architectural Graphics AND	Major Req
5		ARCH 292 Special Topics (these must be taken	5 1
		together to transfer to UMKC)	
Design Studio 2	ENV-DSN 202	ARCH 131 Architectural Graphics AND	Major Req
5		ARCH 140 Architectural Design (these must be	5 1
		taken together to transfer to UMKC)	
Professional Support Elective	ARCH 401	ARCH 220 Sustainability in the Built	Prof Elective
**		Environment	
Architectural History 1	ENV-DSN 250	ARCH 244 Architectural History	Major Req
Architectural History 2	ENV-DSN 251	ARCH 245 Architectural History	Major Req
Precalculus Algebra	MATH 110	MATH 171 College Algebra*	Major Req
8			^Gen Edu
General Physics I	PHYSICS 210	PHYS 130 College Physics I	Major Req
Urban Planning and Design (B			
Prin. of Macroeconomics OR	ECON 201 OR	ECON 230 Principles of Macroeconomics OR	Major Req
Prin. of Microeconomics	ECON 202	ECON 231 Principles of Microeconomics	^Gen Edu
Understanding the Earth with	ENV-SCI 110R AND	GEOS 140 Physical Geography AND	Major Req
Lab	ENV-SCI 110L	GEOS 141 Physical Geography Lab*	J 1
Precalculus Algebra	MATH 110	MATH 171 College Algebra*	Major Req
8			^Gen Edu
Elementary Statistics	STAT 235	MATH 181 Statistics*	Major Req
	rses (there are additional	courses that meet this requirement that are offered	at UMKC)
Foundation Digital Design	ART 114	ART 138 Digital Imaging for Artists I	Prof. Elective
Foundation 2D Design	ART 121	ART 124 Design 2D	Prof. Elective
Problem Solving and	COMP-SCI 101	CS 200 Concepts of Programming Algorithms	Prof. Elective
Programming I		Using C++* OR	
0		CS 202 Concepts of Programming Algorithms	
		using Python*	
Second Year Chinese I OR	CHINESE 211 OR	FL Level II*	Prof. Elective
Second Year French I OR	FRENCH 211 OR		
Second Year German I OR	GERMAN 211 OR		
Second Year Spanish I	SPANISH 211		
Introduction to Women's,	REGS 204	WGS 201 Global Women's Studies	Prof. Elective
Gender, and Sexuality Studies			
Environmental Studies (BA)			
Choose one of the following cou	rses:		
General Geology with Lab	GEOLOGY 220 AND	GEOS 130 General Geology	Major Req
	GEOLOGY 220L		^Gen Edu
Understanding The Earth with	ENV-SCI 110R AND	GEOS 140 Physical Geography AND	Major Req
Lab	ENV-SCI 110L	GEOS 141 Physical Geography Lab*	^Gen Edu
Take each of the following course	ses		
Foreign Language Level I	FL 110	FL Level I	Major Req
			^Gen Edu
Foreign Language Level II	FL 120	<u>FL Level II</u> *	Major Req
			^Gen Edu
Precalculus Algebra	MATH 110	MATH 171 College Algebra*	Major Req
			^Gen Edu
Elementary Statistics	STAT 235	MATH 181 Statistics*	Major Req

Major/Course	UMKC Course	JCCC Course	Req. Fulfilled
Civil Engineering (BS) A minim	um of "C-" or better in	all math, science, engineering, and computer science	ce coursework is
required.			
General Biology I OR	BIOLOGY 108 OR	BIOL 135 Prin. of Cell and Molecular Biology	Major Req
General Geology	GEOLOGY 220	OR GEOS 130 General Geology	5 1
General Chemistry I** AND	CHEM 211 AND	CHEM 124 General Chemistry I* AND	Major Req
with Lab	CHEM 211L	CHEM 125 General Chemistry I Lab*	^Gen Edu
Engineering Computation	E&C-ENGR 216	CS 200 Concepts of Programming Algorithms	Major Req
		Using C++*	
Engineering Statics	CIV-ENGR 275	ENGR 251 Statics*	Major Req
Elementary Statistics	STAT 235	MATH 181 Statistics*	Major Req
Calculus I	MATH 210	MATH 241 Calculus I*	Major Req
Calculus II	MATH 220	MATH 242 Calculus II*	Major Req
Calculus III	MATH 250	MATH 243 Calculus III*	Major Req
Ordinary Differential Equations	MATH 345	MATH 254 Differential Equations*/***	Major Req
Physics for Scientists and	PHYSICS 240	PHYS 220 Engineering Physics I*	Major Req
Engineers I			5 1
Physics for Scientists and	PHYSICS 250	PHYS 221 Engineering Physics II**	Major Req
Engineers II			5 1
Earth and Environmental Scier	nces (BS) – Environme	ntal Science Emphasis	<u>.</u>
General Chemistry I	CHEM 211 AND	CHEM 124 General Chemistry I* AND	Major Req
with Lab	CHEM 211L	CHEM 125 General Chemistry I Lab*	^Gen Edu
General Chemistry II	CHEM 212R AND	CHEM 131 General Chemistry II* AND	Major Req
with Lab	CHEM 212LR	CHEM 132 General Chemistry II Lab*	inger red
Precalculus Algebra AND	MATH 110 AND	MATH 171 College Algebra* AND	Major Req
Trigonometry AND	MATH 125 AND	MATH 172 Trigonometry AND	^Gen Edu
Calculus I OR	MATH 210 OR	MATH 241 Calculus I OR	
Precalculus AND	MATH 120 AND	MATH 173 Precalculus AND	
Calculus I	MATH 210	MATH 241 Calculus I	
Elementary Statistics	STAT 235	MATH 181 Statistics*	Major Req
Pick one of the two following sec	uences:		
General Biology I with Lab	BIOLOGY 108 &	BIOL 135 Principles of Cell and Molecular	Major Req
AND	108L AND	Biology AND	^Gen Edu
General Biology II with Lab	BIOLOGY 109 &	BIOL 150 Biology of Organisms*	(only BIOLOGY
	109L		108)
General Physics I AND General	PHYSICS 210 AND	PHYS 130 College Physics I* AND	Major Req
Physics II	PHYSICS 220	PHYS 131 College Physics II*	^Gen Edu
-			(only PHYSICS 210)
Pick one of the following courses		1	-
Understanding the Earth with	ENV-SCI 110R &	GEOS 140 Physical Geography AND	Major Req
Lab OR	ENV-SCI 110L OR	GEOS 141 Physical Geography Lab* OR	
General Geology with Lab	GEOLOGY 220 &	GEOS 130 General Geology	
	220L		
Earth and Environmental Scier		^	
General Chemistry I	CHEM 211 AND	CHEM 124 General Chemistry I* AND	Major Req
with Lab	CHEM 211L	CHEM 125 General Chemistry I Lab*	^Gen Edu
General Chemistry II	CHEM 212R AND	CHEM 131 General Chemistry II* AND	Major Req
with Lab	CHEM 212LR	CHEM 132 General Chemistry II Lab*	
General Geology with Lab	GEOLOGY 220 &	GEOS 130 General Geology	Major Req
Duran Law Alexandre AND	220L	MATH 171 Caller Ale 1 - * AND	Main D
Precalculus Algebra AND	MATH 110 AND	MATH 171 College Algebra* AND	Major Req
Trigonometry AND	MATH 125 AND	MATH 172 Trigonometry* AND	^Gen Edu
Calculus I OR	MATH 210 OR	MATH 241 Calculus I* OR	
Precalculus AND	MATH 120 AND	MATH 173 Precalculus* AND	
Calculus I	MATH 210	MATH 241 Calculus I*	

Major/Course	UMKC Course	JCCC Course	Req. Fulfilled		
Earth and Environmental Sciences (BS) – Geology Emphasis cont.					
General Physics I	PHYSICS 210	PHYS 130 College Physics I*	Major Req		
			^Gen Edu		
General Physics II	PHYSICS 220	PHYS 131 College Physics II*	Major Req		
Earth and Environmental Sciences (BS) – Physical Geography Emphasis					
General Chemistry I	CHEM 211 AND	CHEM 124 General Chemistry I* AND	Major Req		
with Lab	CHEM 211L	CHEM 125 General Chemistry I Lab*	^Gen Edu		
General Chemistry II	CHEM 212R AND	CHEM 131 General Chemistry II* AND	Major Req		
with Lab	CHEM 212LR	CHEM 132 General Chemistry II Lab*			
Precalculus Algebra AND	MATH 110 AND	MATH 171 College Algebra* AND	Major Req		
Trigonometry AND	MATH 125 AND	MATH 172 Trigonometry AND	^Gen Edu		
Calculus I OR	MATH 210 OR	MATH 241 Calculus I OR			
Precalculus AND	MATH 120 AND	MATH 173 Precalculus* AND			
Calculus I	MATH 210	MATH 241 Calculus I*			
Pick one of the two following sec	uences:				
General Biology I with Lab	BIOLOGY 108 &	BIOL 135 Principles of Cell and Molecular	Major Req		
AND	108L AND	Biology AND	^Gen Edu		
General Biology II with Lab	BIOLOGY 109 &	BIOL 150 Biology of Organisms*	(only BIOLOGY		
	109L		108)		
General Physics I AND General	PHYSICS 210 AND	PHYS 130 College Physics I* AND	Major Req		
Physics II	PHYSICS 220	PHYS 131 College Physics II*	^Gen Edu		
			(only PHYSICS 210)		
Pick one of the following courses	:				
Understanding the Earth with	ENV-SCI 110R AND	GEOS 140 Physical Geography AND	Major Req		
Lab	ENV-SCI 110L	GEOS 141 Physical Geography Lab*			
General Geology with Lab	GEOLOGY 220 &	GEOS 130 General Geology	Major Req		
	220L				

*JCCC course has a prerequisite or corequisite. ** Denotes courses that must be completed with a grade of "C-" or above. ***Meets the requirement for the engineering degree, but will not count towards a major or minor in Math.