

Johnson County Community College

Transfer Program to the University of Missouri-Kansas City School of Science and Engineering Division of Natural and Built Environment 2023-2024 Catalog Contact: School of Science &

Engineering Phone: 816-235-2399 Email: sse@umkc.edu

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 27 credit hours of electives 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 <u>JCCC A.S. degree requirements</u>. 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 Arts:
  - o Urban Planning and Design
  - o Environmental Studies
- Bachelor of Science
  - o Civil Engineering
  - o Earth and Environmental Sciences
    - Environmental Science Emphasis
    - Geology Emphasis
    - 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: https://www.umkc.edu/transfer/apply.html

## School of Science and Engineering Transfer Admission Requirements

• School of Science & Engineering admission requirements vary by major. Please visit <a href="https://sse.umkc.edu/admissions/transfer-students.html">https://sse.umkc.edu/admissions/transfer-students.html</a> 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 <a href="https://www.jccc.edu/student-resources/academic-counseling/transfer/files/transfer-guides/umkc-general-education.pdf">https://www.jccc.edu/student-resources/academic-counseling/transfer/files/transfer-guides/umkc-general-education.pdf</a>

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	
<b>Urban Planning and Design</b>				
Precalculus Algebra	MATH 110	MATH 171 College Algebra*	Major Req ^Gen Edu	
Prin. of Macroeconomics <b>OR</b>	ECON 201 OR	ECON 230 Principles of Macroeconomics <b>OR</b>	Major Req	
Prin. of Microeconomics	ECON 202	ECON 231 Principles of Microeconomics	^Gen Edu	
Elementary Statistics	STAT 235	MATH 181 Statistics*	Major Req	
Understanding the Earth	ENV-SCI 110R AND	GEOS 140 Physical Geography AND	Major Req	
with Lab	ENV-SCI 110L	GEOS 141 Physical Geography Lab*		
Choose two of the following courses				
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	
Second Year Chinese I <b>OR</b>	CHINESE 211 OR	FL Level II*	Prof. Elective	
Second Year French I <b>OR</b>	FRENCH 211 OR			
Second Year German I <b>OR</b>	GERMAN 211 <b>OR</b>			
Second Year Spanish I	SPANISH 211			
Problem Solving and	COMP-SCI 101	CS 200 Concepts of Programming Algorithms	Prof. Elective	
Programming I		Using C++*		
Introduction to Women's,	REGS 204	WGS 201 Global Women's Studies	Prof. Elective	
Gender, and Sexuality				
Studies				
<b>Environmental Studies (BA)</b>				
Choose one of the following co	ourses:			
Understanding The Earth	ENV-SCI 110R AND	GEOS 140 Physical Geography AND	Major Req	
with Lab	ENV-SCI 110L	GEOS 141 Physical Geography Lab*	^Gen Edu	
General Geology with Lab	GEOLOGY 220 AND GEOLOGY 220L	GEOS 130 General Geology	Major Req ^Gen Edu	
Take each of the following cou			Gen Edd	
Precalculus Algebra	MATH 110	MATH 171 College Algebra*	Major Req	
Trecarearas Angeora	WILLIAM TO	Wiriti 171 Conege Angeora	^Gen Edu	
Elementary Statistics	STAT 235	MATH 181 Statistics*	Major Req	
Foreign Language Level I	FL 110	FL Level I	Major Req	
Totolgh Language Level 1	12 110	TE Bever 1	^Gen Edu	
Foreign Language Level II	FL 120	FL Level II*	Major Req	
1 oreign Language Level II	120	TE Bever II	^Gen Edu	
Civil Engineering (BS)				
Physics for Scientists and	PHYSICS 240	PHYS 220 Engineering Physics I*	Major Req	
Engineers I				
Physics for Scientists and	PHYSICS 250	PHYS 221 Engineering Physics II**	Major Req	
Engineers II				
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	MATH 345	MATH 254 Differential Equations*/***	Major Req	
Equations		1	J 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++*		
Elementary Statistics	STAT 235	MATH 181 Statistics*	Major Req	
Engineering Statics	CIV-ENGR 275	ENGR 251 Statics*	Major Req	
General Biology I <b>OR</b>	BIOLOGY 108 OR	BIOL 135 Prin. of Cell and Molecular Biology	Major Req	
General Geology	GEOLOGY 220	OR GEOS 130 General Geology		
Engineering Dynamics	MEC-ENGR 285	ENGR 254 Dynamics*	Major Elective	

Earth and Environmental S	ciences (BS) – Environmer	ntal Science Emphasis		
Precalculus Algebra	MATH 110	MATH 171 College Algebra*	Major Req	
Trooms on the state		I I I I I I I I I I I I I I I I I I I	^Gen Edu	
Elementary Statistics	STAT 235	MATH 181 Statistics*	Major Req	
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*	in injer rioq	
Pick one of the two following		,		
General Biology I with Lab	BIOLOGY 108 & 108L	BIOL 135 Principles of Cell and Molecular	Major Req	
AND	AND	Biology AND	^Gen Edu	
General Biology II with Lab	BIOLOGY 109 & 109L	BIOL 150 Biology of Organisms*	(only BIOLOGY 108)	
General Physics I AND	PHYSICS 210 AND	PHYS 130 College Physics I* AND	Major Req	
General Physics II	PHYSICS 220	PHYS 131 College Physics II*	^Gen Edu	
Contract Hyeres 11	11112122 == 0		(only PHYSICS 210)	
Pick one of the following cour	rses:			
Understanding the Earth	ENV-SCI 110R &	GEOS 140 Physical Geography AND	Major Req	
with Lab <b>OR</b>	ENV-SCI 110L <b>OR</b>	GEOS 141 Physical Geography Lab* <b>OR</b>		
General Geology with Lab	GEOLOGY 220 & 220L	GEOS 130 General Geology		
Earth and Environmental Sciences (BS) – Geology Emphasis				
Precalculus AND	MATH 120 <b>AND</b>	MATH 173 Precalculus* AND	Major Req	
Calculus I	MATH 210	MATH 241 Calculus I*	^Gen Edu	
General Chemistry I	CHEM 211 <b>AND</b>	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 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	
General Geology with Lab	GEOLOGY 220 & 220L	GEOS 130 General Geology	Major Req	
Earth and Environmental Sciences (BS) – Physical Geography Emphasis				
Precalculus Algebra	MATH 110	MATH 171 College Algebra*	Major Req	
_			^Gen Edu	
Elementary Statistics	STAT 235	MATH 181 Statistics*	Major Req	
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*		
Pick one of the two following	sequences:			
General Biology I with Lab	BIOLOGY 108 & 108L	BIOL 135 Principles of Cell and Molecular	Major Req	
AND	AND	Biology AND	^Gen Edu	
General Biology II with Lab	BIOLOGY 109 & 109L	BIOL 150 Biology of Organisms*	(only BIOLOGY 108)	
General Physics I AND	PHYSICS 210 AND	PHYS 130 College Physics I* AND	Major Req	
General Physics II	PHYSICS 220	PHYS 131 College Physics II*	^Gen Edu	
_			(only PHYSICS 210)	
Pick one of the following cour	rses:			
Understanding the Earth	ENV-SCI 110R AND	GEOS 140 Physical Geography AND	Major Req	
with Lab	ENV-SCI 110L	GEOS 141 Physical Geography Lab*		
General Geology with Lab	GEOLOGY 220 & 220L	GEOS 130 General Geology	Major Req	

<sup>\*</sup>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.