

Division of Natural and Built Environment

University of Missouri - Kansas City

Johnson County Community College Transfer Program to the University of Missouri - Kansas City	School of Science & Engineering
School of Science and Engineering	816-235-2399
Division of Natural and Built Environment	sse@umkc.edu
Academic Year 2025-2026	https://sse.umkc.edu

Program Description

The Associate of Science, AS (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-science/>) at JCCC is a general transfer degree and partners well with the first two years of most bachelor degree programs. Students pursuing the AS may select courses that satisfy both the AS degree requirements and lower division requirements for a bachelor's degree at four-year institutions. The elective hours within the AS allow students to complete additional general education and lower division courses required for specific majors. The AS degree requires completion of 60 credit hours. Meeting with a JCCC counselor (<https://www.jccc.edu/student-resources/counseling/academic-counseling/>) is strongly recommended for selection of appropriate courses.

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

- Bachelor of Arts:
 - Urban Planning and Design (<https://catalog.umkc.edu/colleges-schools/science-engineering/architecture-urban-planning-design/urban-planning-design-ba/>)
 - Environmental Studies (<https://catalog.umkc.edu/colleges-schools/science-engineering/ees/bachelor-of-arts/>)
- Bachelor of Science
 - Civil Engineering (<https://catalog.umkc.edu/colleges-schools/science-engineering/civil-engineering/bachelor-of-science-civil-engineering/>)
 - Earth and Environmental Sciences
 - Environmental Science Emphasis (<https://catalog.umkc.edu/colleges-schools/science-engineering/ees/bachelor-of-science-environmental-science/>)
 - Geology Emphasis (<https://catalog.umkc.edu/colleges-schools/science-engineering/ees/bachelor-of-science-geology/>)
 - Physical Geography Emphasis (<https://catalog.umkc.edu/colleges-schools/science-engineering/ees/bachelor-of-science-geography/>)

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.
- Equivalent courses can be repeated but all grades will be averaged for GPA calculation purposes and students will only receive credit for one attempt.
- Visit the full transfer admission requirements (<https://www.umkc.edu/transfer/apply.html>) for more information.

School of Science and Engineering Transfer Admission Requirements

- Visit the School of Science & Engineering (<https://sse.umkc.edu/admissions/transfer-students.html>) admission requirements by major.

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 (<https://nam12.safelinks.protection.outlook.com/?url=http%3A%2F%2Fnextcatalog.jccc.edu%2Ftransfer-guides%2Fumkc%2Fumkc-general-education%2F&data=05%7C02%7Cskhalif2%40jccc.edu%7C3bbbe8fc84564328cf7008de1320415e%7C15244239dcf245e7aefd127b69fc5438%7C1%7C0%7C638969226426393815%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUuIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMmliLkFOljoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=%2FvPga7lbeZ0jrCCeMsWei47YJU4Mi5k%2B50ooxjEZup4%3D&reserved=0>).

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 information about the program, you must meet with an advisor at the transfer institution.

Urban Planning and Design (BA)

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
Select one of the following					
ECON 230	Principles of Macroeconomics	3	ECON 201	Prin. of Macroeconomics	
ECON 231	Principles of Microeconomics	3	ECON 202	Prin. of Microeconomics	
GEOS 140 & GEOS 141	Physical Geography and Physical Geography Lab*	3	ENV-SCI 110R	Understanding the Earth with Lab	
MATH 171	College Algebra*	3	MATH 110	"Math, Its Form and Impact"	3
MATH 161	Elementary Statistics*	3	STAT 235	Elementary Statistics	
Choose two of the following courses (there are additional courses that meet this requirement that are offered at UMKC)					
ART 138	Digital Imaging for Artists I	3	ART 114	Foundation Digital Design	
ART 124	Design 2D	3	ART 121	Foundation 2D Design	3
Select one of the following:					
CS 200	Concepts of Programming Algorithms Using C++*	4	COMP-SCI 101	COMP-SCI 101	

CS 202	Concepts of Programming Algorithms using Python*	4	COMP-SCI 101	COMP-SCI 101
CS 205	Concepts of Programming Algorithms using Java*	4	COMP-SCI 101	COMP-SCI 101
WGS 201	Global Women's Studies	3	REGS 204	Intro Wmn's/Gend/ Sexuality St. 3

Visit the FL Level II (<https://catalog.jccc.edu/archives/2025-26/coursedescriptions/fl/>)* for JCCC equivalents.

Select one of the following:

- CHINESE 211 Second Year Chinese I
- FRENCH 211 Second Year French I
- GERMAN 211 Second Year German I
- SPANISH 211 Second Year Spanish I

Environmental Studies (BA)

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
Choose one of the following courses:					
GEOS 130	General Geology	5	GEOLOGY 220 AND GEOLOGY 220L	General Geology with Lab	
GEOS 140 & GEOS 141	Physical Geography and 3 Physical Geography Lab*	3	ENV-SCI 110R	Understanding The Earth with Lab	
Take each of the following courses					
Foreign Language Level I ^{FL 110}					
Visit the FL Level I for JCCC equivalents.					
Foreign Language Level II ^{FL 120}					
Visit the FL Level II* for JCCC equivalents.					
MATH 171	College Algebra*	3	MATH 110	"Math, Its Form and Impact"	3
MATH 161	Elementary Statistics*	3	STAT 235	Elementary Statistics	

Civil Engineering (BS)

A minimum of "C-" or better in all math, science, engineering, and computer science coursework is required.

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
Select one of the following:					
BIOL 135	Principles of Cell and Molecular Biology	4	BIOL 108 & BIOLOGY 108	General Biology I and General Biology I	3
GEOS 130	General Geology	5	GEOL 220 & GEOLOGY 220	General Geology and General Geology	3-4
CHEM 124 & CHEM 125	General Chemistry I Lecture* and General Chemistry I Lab*	4	CHEM 211 & CHEM 211L	General Chemistry I and Experimental Gen Chemistry I	1
CS 200	Concepts of Programming Algorithms Using C++*	4	EC-ENGR 216	Engineering Computation	

ENGR 251	Statics*	3	CIV-ENGR 275	Engineering Statics	3
MATH 161	Elementary Statistics*	3	STAT 235	Elementary Statistics	
MATH 241	Calculus I*	5	MATH 210	Calculus I	4
MATH 242	Calculus II*	5	MATH 220	Analytic Geometry Calc I	4
MATH 243	Calculus III*	5	MATH 250	Calculus III	
MATH 254	Differential Equations*	4	MATH 345	Ordinary Differential Equation	4
PHYS 220	Engineering Physics I*	5	PHYSICS 240	Physics Scientist/Engineers I	5
PHYS 221	Engineering Physics II*	5	PHYSICS 250	Physics Scientist/Engineers II	5

Earth and Environmental Sciences (BS) – Environmental Science Emphasis

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
CHEM 124 & CHEM 125	General Chemistry I Lecture* and General Chemistry I Lab*	4	CHEM 211 & CHEM 211L	General Chemistry I and Experimental Gen Chemistry I	1
CHEM 131 & CHEM 132	General Chemistry II Lecture* and General Chemistry II Lab*	4	CHEM 212R & CHEM 212LR	General Chemistry II and Experimental Gen Chemistry II	1
MATH 171	College Algebra*	3	MATH 110	"Math, Its Form and Impact"	3
MATH 172	Trigonometry*	3	MATH 125	Calculus I	4
Select one of the following:					
MATH 241	Calculus I*	5	MATH 210	Calculus I	4
MATH 173	Precalculus*	5	MATH 120	Precalculus	5
Pick one of the two following sequences:					
BIOL 135	Principles of Cell and Molecular Biology	4	BIOL 108 & BIOLOGY 108	General Biology I and General Biology I	3
BIOL 150	Biology of Organisms*	5	BIOLOGY 109 109L	General Biology II with Lab	
PHYS 130	College Physics I*	5	PHYSICS 210	General Physic I	4
PHYS 131	College Physics II*	5	PHYSICS 220	General Physics II	4
Pick one of the following courses:					
GEOS 140 & GEOS 141	Physical Geography and Physical Geography Lab*	3	ENV-SCI 110R	Understanding the Earth with Lab	
GEOS 130	General Geology	5	GEOL 220 & GEOLOGY 220	General Geology and General Geology	3-4

Earth and Environmental Sciences (BS) – Geology Emphasis

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
CHEM 124 & CHEM 125	General Chemistry I Lecture* and General Chemistry I Lab*	4	CHEM 211 & CHEM 211L	General Chemistry I and Experimental Gen Chemistry I	1
CHEM 131 & CHEM 132	General Chemistry II Lecture* and General Chemistry II Lab*	4	CHEM 212R & CHEM 212LR	General Chemistry II and Experimental Gen Chemistry II	1
GEOS 130	General Geology	5	GEOL 220 & GEOLOGY 220	General Geology and General Geology	3-4

MATH 171	College Algebra*	3	MATH 110	"Math, Its Form and Impact"	3
MATH 172	Trigonometry*	3	MATH 125	Calculus I	4
Select one of the following:					
MATH 241	Calculus I*	5	MATH 210	Calculus I	4
MATH 173	Precalculus*	5	MATH 120	Precalculus	5
PHYS 130	College Physics I*	5	PHYSICS 210	General Physic I	4
PHYS 131	College Physics II*	5	PHYSICS 220	General Physics II	4

Earth and Environmental Sciences (BS) – Physical Geography Emphasis

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title	Hours	Hours		
CHEM 124 & CHEM 125	General Chemistry I Lecture* and General Chemistry I Lab*	4	CHEM 211 & CHEM 211L	General Chemistry I and Experimental Gen Chemistry I	1
CHEM 131 & CHEM 132	General Chemistry II Lecture* and General Chemistry II Lab*	4	CHEM 212R & CHEM 212LR	General Chemistry II and Experimental Gen Chemistry II	1
MATH 171	College Algebra*	3	MATH 110	"Math, Its Form and Impact"	3
MATH 172	Trigonometry*	3	MATH 125	Calculus I	4
Select one of the following:					
MATH 241	Calculus I*	5	MATH 210	Calculus I	4
MATH 173	Precalculus*	5	MATH 120	Precalculus	5
Pick one of the two following sequences:					
BIOL 135	Principles of Cell and Molecular Biology	4	BIOLOGY 108 108L General Biology I with Lab		
BIOL 150	Biology of Organisms*	5	BIOLOGY 109 109L General Biology II with Lab		
PHYS 130	College Physics I*	5	PHYSICS 210	General Physic I	4
PHYS 131	College Physics II*	5	PHYSICS 220	General Physics II	4
Pick one of the following courses:					
GEOS 140 & GEOS 141	Physical Geography and Physical Geography Lab*	3	ENV-SCI 110R AND ENV-SCI 110L Understanding the Earth with Lab		
GEOS 130	General Geology	5	GEOL 220 & GEOLOGY 220	General Geology and General Geology	3-4

* 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.