

Mathematics

University of Kansas

Johnson County Community College Transfer Program to the University of Kansas	College Undergraduate
College of Liberal Arts & Sciences	785-864-3500
Mathematics, BA & BS	collegeundergrad@ku.edu
Academic Year 2025-2026	collegeundergrad.ku.edu

Program Description

The Associate of Arts, AA (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-arts/>) at JCCC is a general transfer degree and partners well with the first two years of most bachelor degree programs. Students pursuing the AA may select courses that satisfy both the AA degree requirements and lower division requirements for a bachelor's degree at four-year institutions. The elective hours within the AA allow students to complete additional general education and lower division courses required for specific majors. The AA 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.

Admission Requirements

- Separate programs lead to the B.A. in mathematics and the B.S. in mathematics. The B.A. has fewer mathematics course requirements and more general education requirements. The B.S. requires more mathematics courses, three courses in mathematics applications, and fewer general education courses. Students wishing to attend graduate school in mathematics or to pursue a career that makes substantial use of mathematics (as an actuary, for example) should get a B.S. in mathematics. Many students majoring in mathematics are interested in a liberal arts degree; such students may want to consider the B.A. in mathematics. Students who wish to teach mathematics in high school should pursue a B.A. or B.S. in mathematics while participating in the STEMTeach program. Visit the STEMTeach program (<https://stemteach.ku.edu/>) for more information.
- Minimum total hours for graduation is 120.
- A maximum of 75 hours may be transferred to KU from community colleges. Students should be aware that 45 junior/senior credit hours (300+) are required for completion of the bachelor's degree; 30 of those hours must be at KU; and community college courses do not transfer as junior/senior hours.
- Generally, it is okay to elect CR/NC for a KU Core requirement, but students should check with their advisor. A student cannot take a class Credit/No Credit for any major requirement.
- Students transferring to KU, that complete the General Education requirements required for the Associate of Arts (AA) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-arts/>), Associate of Fine Arts (AFA) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-fine-arts/>) or Associate of Science (AS) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-science/>) degree from JCCC will be considered to have satisfied KU's Core 34 general education curriculum.
- Students who transfer to KU, without completing the General Education requirements required for the Associate of Arts (AA) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-arts/>), Associate of Fine Arts (AFA) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-fine-arts/>) or Associate of Science (AS) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-science/>) degree will have courses evaluated on a course-by-course basis toward meeting KU requirements. To learn more about courses that satisfy KU Core 34 Requirements (<https://catalog.ku.edu/core34/>) and KU CredTran (<https://creditransfer.ku.edu/>).
- Visit the KU Core 34 General Education guide (<https://nam12.safelinks.protection.outlook.com/?url=http%3A%2F%2Fnextcatalog.jccc.edu%2Ftransfer-guides%2Fku%2Fku-general-education&data=05%7C02%7Cskhalif2%40jccc.edu%7C506a4b607ca34eaa00fb08de158ef1c2%7C15244239dcf245e7aefd127b69fc5438%7C1%7C0%7C638971900858599422%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIlwLjAuMDAwMCIsIiAiOiJXaW4zMmliLkFOLjoiTWVpbiIsIlIdUljoyfQ%3D%3D%7C0%7C%7C%7C&sdata=b2O9VaVq9VFjN8MJkWQ4YCl60oq5GZXnn69Vpa2sSL0%3D&reserved=0>) for JCCC equivalents.

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.

Mathematics, BA Requirements

Code	Title	Hours
KU Core 34 Requirements		
Visit the KU Core 34 English (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents. (two courses)		6
Visit the KU Core 34 Communications (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents.		3
Visit the KU Core 34 Math and Statistics (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents.		3
Visit the KU Core 34 Natural and Physical Sciences (lab required) (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents.		4-5
Visit the KU Core 34 Social and Behavioral Sciences (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents. (Select two courses in two different disciplines)		6
Visit the KU Core 34 Arts and Humanities (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents. (Select two courses in two different disciplines)		6
Visit the KU Core 34 US Culture (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents. Institutionally Designated		3
Visit the KU Core 34 US Culture (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents. Institutionally Designated		3

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
Program Requirements					
MATH 241	Calculus I* ^	5	MATH 125	Calculus I	4
MATH 242	Calculus II* QR	5	MATH 126	Calculus II	4
MATH 243	Calculus III* M	5	MATH 127	Calculus III	4
MATH 246	Elementary Linear Algebra* M	3	MATH 290	Elementary Linear Algebra	2

Laboratory or Field Experience (BA Degree Requirement): Variable credits. One laboratory science (at least one credit hour) is required for the B.A. degree. Courses that fulfill this requirement will contain the code "LFE" in the course description.

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
Laboratory or Field Experience					
ASTR 122	Astronomy	4	ASTR 191 & ASTR 196	Contemporary Astronomy and Contemporary Astronomy Lab	4
BIOL 121	Introductory Biology for Non-Majors	4	BIOL 100 & BIOL 102	Principles of Biology and Principles of Biology Lab	4
BIOL 135	Principles of Cell and Molecular Biology	4	BIOL 150 Prin. of Molecular and Cellular Biology AND BIOL 154 Introductory Biology Lab for STEM Majors		
BIOL 150	Biology of Organisms*	5	BIOL 152 Principles of Organismal Biology AND BIOL NLAB		
BIOL 230 & BIOL 231	Microbiology* and Microbiology Lab*	3	BIOL 200 & BIOL 203	Basic Microbiology and Introductory Microbiology Lab	5
EVRN 130 & EVRN 132	Environmental Science and Environmental Science Laboratory*	3	EVRN 140 & EVRN 160	Global Environment I and Environmental Solutions	4-6



GEOS 140 & GEOS 141	Physical Geography and 3 Physical Geography Lab*	3	GEOG 104 & GEOG 105	Intro to Physical Geography and Intro Lab Phys Geography	5
PHYS 130	College Physics I*	5	PHSX 114	College Physics I	4
PHYS 220	Engineering Physics I*	5	PHSX 211 & PHSX 216	General Physics I Lecture and General Physics I Laboratory	5
PHYS 221	Engineering Physics II*	5	PHSX 212 & PHSX 236	General Physics II Lecture and General Physics II Laboratory	4
CHEM 122	Principles of Chemistry*	5	CHEM 110	Introductory Chemistry	5
CHEM 124 & CHEM 125	General Chemistry I Lecture* and General Chemistry I Lab*	4	CHEM 130	General Chemistry I	5
CHEM 131 & CHEM 132	General Chemistry II Lecture* and General Chemistry II Lab*	4	CHEM 135	General Chemistry II	5

Non-English Language (BA Degree Requirement): Variable credits. Students must demonstrate fourth semester proficiency in a single non-English language, or third semester proficiency in a first non-English language and first semester proficiency in a second non-English language. This requirement may be met through coursework or examination by the appropriate language department. (BA only) Visit the complete list of JCCC Foreign Language courses (<https://catalog.jccc.edu/archives/2025-26/coursedescriptions/fl/>) for course options. Check with JCCC Counselor for placement into appropriate courses and course offerings per semester at KU.

Course Code Code	Course Title Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Non-English Language					
FL 120	Elementary German I	5	GERM 104	Elementary German I	5
FL 121	Elementary German II*	5	GERM 108	Elementary German II	5
FL 130	Elementary Spanish I	5	SPAN 104	Elementary Spanish I	5
FL 131	Elementary Spanish II*	5	SPAN 108	Elementary Spanish II	5
FL 140	Elementary French I	5	FREN 110	Elementary French I	5
FL 141	Elementary French II*	5	FREN 120	Elementary French II	5
FL 165	Elementary Chinese I	5	CHIN 104	Elementary Chinese I	5
FL 166	Elementary Chinese II*	5	CHIN 108	Elementary Chinese II	5
FL 170	Elementary Japanese I	5	JPN 104	Elementary Japanese I	5
FL 171	Elementary Japanese II*	5	JPN 108	Elementary Japanese II	5
FL 182	Intermediate Japanese I*	5	JPN 204	Intermediate Japanese I	5
FL 183	Intermediate Japanese II*	5	JPN 208	Intermediate Japanese II	5
FL 220	Intermediate German I*	3	GERM 201	Intermediate German I	3
FL 221	Intermediate German II*	3	GERM 202	Intermediate German II	3
FL 230	Intermediate Spanish I*	3	SPAN 212	Intermediate Spanish I	3
FL 231	Intermediate Spanish II*	3	SPAN 216	Intermediate Spanish II	3
FL 240	Intermediate French I*	3	FREN 230	Intermediate French I	3
FL 241	Intermediate French II*	3	FREN 240	Intermediate French II	3

to become a secondary teacher in Kansas, but completion of the program does not guarantee the student's licensure. Please consult with your major advisor for further information about meeting your degree/major requirements.

- 2.75 KU + Transfer Cumulative GPA
- 2.5 Content GPA

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
MATH 241	Calculus I*	5	MATH 125	Calculus I	4
MATH 242	Calculus II*	5	MATH 126	Calculus II	4
MATH 243	Calculus III*	5	MATH 127	Calculus III	4
MATH 246	Elementary Linear Algebra*	3	MATH 290 Elementary Linear Algebra		
MATH 254	Differential Equations*	4	MATH 220	Applied Differential Equations	3

* JCCC course has a prerequisite or corequisite.

^ This course is a Required major course and is also part of Core 34: Systemwide General Education. If this course is not taken to fulfill the Core 34:SGE requirement, it must be taken in place of elective hours.

QR BA Quantitative Reasoning (QR)

M Major Requirement

BA BA Degree Requirement

BS BS Degree Requirement

NOTE: KU assumes students will have the equivalent of MATH 101 College Algebra (MATH 171 College Algebra at JCCC) completed prior to transfer. This course is also a pre-req for several math courses.

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