



## TRANSFER PATHWAY GUIDE 2023-2024

Associate in Arts to Bachelor of Arts in Mathematics –  
Mathematical Sciences  
(Option B)

### Overview

Completion of the following curriculum will satisfy the requirements for an Associate in Art at KCTCS as well as UK Core requirements for the University of Kentucky and pre-major requirements for the BA degree in Mathematics – Mathematical Sciences (Option B).

### Admission Requirements

Students must meet the University admission requirements to be admitted into any major within the College of Arts and Sciences.

KCTCS students planning to transfer to the University of Kentucky should work closely with a UK Transfer Advisor each semester to ensure that both KCTCS and UK degree requirements are met.

### Degree Requirements

The College of Arts & Sciences requires that students complete foreign language courses above the university requirement. Students must either: 1) Obtain proficiency through the fourth level of one language or 2) Obtain proficiency through the third level of a language different from that taken in high school. The high school language must have been taken through the second level. All students are provided the opportunity to take a placement exam in any language to determine the appropriate class.

### General Transfer Requirements

All prospective transfer students are encouraged to receive advising from the University of Kentucky Transfer Center. Appointments are offered online and in-person, and can be scheduled online at <https://www.uky.edu/admission/transfer-advising>.

Additionally, we recommend reviewing the transfer admission requirements (<https://www.uky.edu/admission/transfer-requirements>) and the Frequently Asked Questions (<https://www.uky.edu/admission/transfer/frequently-asked-questions>) on our website: <https://www.uky.edu/admission/transfer>.

For more information, please contact the UK Transfer Center by email at [UKTransfer@uky.edu](mailto:UKTransfer@uky.edu), by phone at 859-257-2000, or in-person in Room 100 of the Funkhouser Building on UK's campus.

# KCTCS ASSOCIATE IN SCIENCE TO UNIVERSITY OF KENTUCKY BACHELOR OF ART IN Mathematics – Mathematical Sciences (Option B) CHECKLIST

## Kentucky Community and Technical College System

### Category 1: KCTCS General Education Core Requirements (33 hours)

KCTCS Course	Course or Category	Credits	UK Course	Completed
ENG101	Writing I (WC)	3	ENG 101	
ENG102	Writing II (WC)	3	ENG 102	
TBSXXX	Oral Communication (OC)	3	TBD XXX	
TBS XXX	Heritage (AH)	3	TBD XXX	
TBS XXX	Humanities (AH)	3	TBD XXX	
TBS XXX	Social and Behavioral Science (SB)	3	TBD XXX	
TBS XXX	Social Science and Behavioral Science (SB)	3	TBD XXX	
TBS XXX	Natural Science with Lab (NS)	4	TBDXXX	
TBS XXX	Natural Science (NS)	3	TBDXXX	
MAT174/175	Calculus I (QR)	5	MA 113	
MAT184/185	Calculus II (QR)	5	MA 114	
	<b>Subtotal General Education Core Courses</b>	<b>38</b>		

TBS XXX means to be selected by KCTCS student.

One of these courses must be selected from the KCTCS identified Cultural Studies course list, indicate by placing (CS) next to the course name in Category 1 or 2 table.

### Category 2: KCTCS AS Requirements (6 hours)

KCTCS Course	Course or Category	Credits	UK Course	Completed
MAT 275	Calculus III	4	MA 213	
	Hours fulfilled by other coursework			
	<b>Subtotal AA/AS Requirement Courses</b>	<b>4</b>		

### Category 3: KCTCS Electives (21 hours)

KCTCS Course	Course or Category	Credits	UK Course	Completed
TBS XXX	Digital Literacy	3	TBD XXX	
TBS XXX	First-Year Experience	3	TBD XXX	
TBS XXX	Foreign Language I	4	TBD XXX	
TBS XXX	Foreign Language II	4	TBD XXX	
CIS 115U	Intro to Computer Programming	3	CS 115	
CS 215U	Intro to Program Design, Abstraction and Problem Solving	4	MA 114 or 138	
	<b>Subtotal Elective Courses</b>	<b>21</b>		
	<b>TOTAL Associate Degree Hours</b>	<b>63</b>		

# University of Kentucky

## Major Requirements for Bachelor of Arts degree in Mathematics: Mathematical Sciences (Option B)

UK Course	Course	Credits	KCTCS Course	Taken at KCTCS
TBS XXX	Lab & Field Work	4		
TBS XXX	Race and Ethnicity	3		
TBS XXX	Natural Science	3		
TBS XXX	Humanities	3		
CS 215	Intro to Program Design, Abstraction, and Problem Solving	3		
MA 213	Calculus III	4		
MA 214	Calculus IV	3		
MA/STA 320	Intro Probability	3		
MA/CS 321	Intro to Numerical Methods	3		
MA 322	Matrix Algebra and its Applications	3		
STA 321	Basic Statistical Theory I	3		
Two Semester Sequence	Choose from one of two available MA sequences	6		
300+ MA courses		6		
300+ Outside Major Hours (OMA)		9		
<b>Subtotal UK Credit Hours</b>		60		
<b>Total Baccalaureate Degree Credit Hours</b>		120		

Sample Course Sequence: KCTCS Associate in Arts to UK Bachelor of Arts Degree in Mathematics: Mathematical Sciences (Option B)

KCTCS Fall Semester 1	
ENG 101	3
Foreign Language I	4
Natural Science	3
First Year Experience	3
Social Science	3
<b>Total</b>	<b>16</b>

KCTCS Spring Semester 1	
ENG 102	3
Foreign Language II	4
NS w/Lab	4
Social Science	3
Oral Communication	3
<b>Total</b>	<b>17</b>

KCTCS Summer Semester 1	

KCTCS Fall Semester 2	
Foreign Language III	3
Calculus I	4
Natural Science	3
Digital Literacy	3
Heritage (AH)	3
<b>Total</b>	<b>16</b>

KCTCS Spring Semester 2	
Foreign Language IV	3
Calculus II	4
CS 115	3
Humanities (AH)	3
Social Science	3
<b>Total</b>	<b>16</b>

KCTCS Summer Semester 2	

UK Fall Semester 3	
Calculus III	3
CS 215	3
Humanities	3
MA 320/STA 320	3
MA 300+	3
<b>Total</b>	<b>15</b>

UK Spring Semester 3	
Calculus IV	3
Humanities	3
MA 322	3
MA/CS 321	3
MA 300+	3
<b>Total</b>	<b>15</b>

UK Summer Semester 3	

UK Fall Semester 4	
Sequence 1 MA	3
OM MA 300+	3
STA 321	3
OMA 300+	3
OMA 300+	3
<b>Total</b>	<b>15</b>

UK Spring Semester 4	
Sequence 2 MA	3
MA 391	3
OMA 300+	3
Elective	3
Elective	3
<b>Total</b>	<b>15</b>

UK Summer Semester 4	