



## TRANSFER PATHWAY GUIDE

**2019-2020**

Associate in Arts to Bachelors of Science in Applied Mathematics

### ***Overview***

Completion of the following curriculum will satisfy the requirements for Associates of Arts at the Kentucky Community and Technical College System and leads to a Bachelor's Degree at Brescia University.

### ***Admission Requirements***

Official transcript from all schools attended. Combined grade point of average of a 2.0 or higher.

### ***Degree Requirements***

Students can apply to Brescia University at: <https://www.brescia.edu/apply/> For any questions or additional information on tuition, deadlines, or start dates, please email [BUconnections@brescia.edu](mailto:BUconnections@brescia.edu)

### ***General Transfer Requirements***

Brescia University can accept up to 67 hours of transfer credit from OCTC from their associate of arts or science for courses where a student made a grade of C or above.

## KCTCS AA TO BU's Bachelor Degree CHECKLIST

### Kentucky Community and Technical College System

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

KCTCS Course	Course or Category	Credits	{Institution} Course	Completed
ENG 101	Written Communication	3		
ENG 102	Written Communication	3		
COM 181	Oral Communication	3		
HIS 104	Heritage	3		
ENG 161	Humanities	3		
REL 130	Social & Behavioral Sciences (CS)	3		
ECO 201	Social & Behavioral Sciences	3		
ECO 202	Social & Behavioral Sciences	3		
BIO 112, BIO 113	Natural Science	3		
MAT 150 or higher GER Math	Quantitative Reasoning	3		
Highest Math Possible	Natural Science/ Quantitative Reasoning	3		
	<b>Subtotal General Education Core Courses</b>			

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 AA Requirements (6 hours)

KCTCS Course	Course or Category	Credits	{Institution} Course	Completed
One of:	FRE 101, GER 101, JPN 101, RAE 150, or SPA 101	3		
One of:	ART 100 , MUS 100, MUS 208, THA 101	3		
	<b>Subtotal AA/AS Requirement Courses</b>			

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

KCTCS Course	Course or Category	Credits	{Institution} Course	Completed
	Digital Literacy	0-3		
	First-Year Experience	0-3		
One of:	PHI 100, PHI 120, PHI 130, PHI 150	3		
MAT 174/ 175	Calculus I	3		
CIT 130	Productivity Software	3		
CIT 142 or 147	Programming I	3		
CIT 149	Programming II (JAVA I)	3		
	<b>Subtotal Elective Courses</b>	<b>21</b>		
	<b>TOTAL Associate Degree Hours</b>	<b>60</b>		

## BRESCIA UNIVERSITY

### Major Requirements for Applied Mathematics

Brescia University Course	Course	Credits	{Institution } Course	Taken at KCTCS
Mth 212	Calculus II	4		
Mth 213	Calculus III	4		
Mth 308	Linear Algebra	3		
Mth 310	Geometry	3		
Mth 313 or Bad 318	Probability and Stats	3		
Mth 497,498	Senior Seminar I and II	2		
Mth 499	Senior Project	1		
<b>MAJOR SUBJECT ELECTIVES:</b>	<i>Choose five (5) courses from the two lists below, with the following restrictions:</i>	<b>15 Hrs</b>		
	<i>Select at least one (1) of the following courses:</i>			
Mth 320	Graph Theory	(3)		
Mth 400	Modern Algebra	(3)		
Mth 405	Advanced Calculus	(3)		
	<i>Select at least two (2) of the following, with not more than two (2) courses from outside the mathematics area:</i>			
BAd 418	Quantitative Methods for Business	(3)		
Chm 350	Physical Chemistry	(3)		
CS 351	Computer Modeling and Simulation	(3)		
Eco 418	Mathematical Methods in Economics	(3)		
Mth 305	Differential Equations	(3)		
Mth 340	Numerical Analysis	(3)		
Mth 350	Math History	(3)		
Mth 415	Operations Research	(3)		
PhS 300	Modern Physics	(3)		
PhS 303	Analytical Mechanics	(3)		
PhS 305	Theory of Electricity and Magnetism	(3)		
PhS 350	Thermodynamics	(3)		
	Upper Division GER course	3		
	Upper Division GER course	3		
	Upper Division course	3		
	Upper Division course	3		
	Upper Division course	3		
	<b>Subtotal BRESCIA Credit Hours</b>	<b>68</b>		
	<b>Total Baccalaureate Degree Credit Hours</b>	<b>128</b>		

Updated: {11-11-19}