TRANSFER PATHWAY GUIDE

Associate in Science to Bachelors of Science in Applied Mathematics

Overview

Completion of the following curriculum will satisfy the requirements for Associates of Science 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

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 AS 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	Brescia Course	Completed
ENG 101	Written Communication	3	ENG 101	
ENG 102	Written Communication	3	ENG 102	
COM 181	Oral Communication	3	SPH 110	
HIS 104	Heritage	3	HIS 101	
ENG 161	Humanities	3	ENG 204	
REL 130	Social & Behavioral Sciences (CS)	3	TH 219	
ECO 201	Social & Behavioral Sciences	3	ECO 202	
ANY GER	Natural Science	3		
ANY GER	Natural Science	3		
Highest Math Possible	Quantitative Reasoning	3		
Highest Math Possible	Quantitative Reasoning	3		
	Subtotal General Education Core Courses			

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	Brescia Course	Completed
MAT 174, 175	Natural Science/ Quantitative Reasoning	3	MTH 211	
Highest Math	Natural Science/ Quantitative Reasoning	3		
	Subtotal AA/AS Requirement Courses			

Category 3: KCTCS Electives (21 hours)

KCTCS Course	Course or Category	Credits	Brescia Course	Completed
	Digital Literacy	0-3		
	First-Year Experience	0-3	BU 101	
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		
ECO 202	Principles of Macroeconomics	3	ECO 201	
CIT 142 or 147	Programming I	3	CS 110	
CIT 149	Programming II	3	CS 111	
	Subtotal Elective Courses	**21**		
	TOTAL Associate Degree Hours	**60**		

BRESCIA UNIVERSITY

Major Requirements for Applied Mathematics

Brescia University Course	Course	Credits	KCTCS Course	Taken at KCTCS
CS 107/ 108/ 109	Electronic Spreadsheets/ Internet Technology/ Databases	3	CIT 130	
Mth 212	Calculus II	4	MAT 184, 185	
Mth 213	Calculus III	4	MAT 213, 275	
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		
MAJOR SUBJECT ELECTIVES:	*Choose five (5) courses from the two lists below, with the following restrictions:*	**15 Hrs**		
	Select at least one (1) of the following courses:			
Mth 320	Graph Theory	(3)		
Mth 400	Modern Algebra	(3)		
Mth 405	Advanced Calculus	(3)		
	Select at least two (2) of the following, with not more than two (2) courses from outside the mathematics area:			
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)	MAT 285	
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 Philosophy GER course	3		
	Upper Division GER course	3		
	Upper Division course	3		
	Upper Division course	3		
	Subtotal Brescia Credit Hours	**60**		
	Total Baccalaureate Degree Credit Hours	**120**		

Updated: {6-14-22}