Blue Ridge Community & Technical College and American Public University System
Articulation Agreement for Associate of Science General Studies Mathematics Concentration to Bachelor of Science in Mathematics

Courses required to earn AS General Studies Mathematics Concentration at BRCTC & how it transfers to APUS						
Blue Ridge Community & Technical College			**American Public University System**			
Course #	Course Title	Credits	Course #	Course Title	Credits	APUS Area
Year 1, Semester 1			*Transfers to APUS as*			
ENGL 101	Written English I	3	ENGL101	Proficiency in Writing	3	English
MATH 105	College Algebra	3	MATH110	College Algebra	3	Core
Select ONE HIST 101 HIST 102	 World History to 1500 World History since 1500	3	 HIST111 HIST112	 World Civilization before 1650 World Civilization since 1650	3	History
Select ONE ART 103 MUSC 111 PHIL 101	 Intro to Visual Art Introduction to Music Introduction to Philosophy	3	 ARTH200 MUSI200 PHIL101	 Art Appreciation Music Appreciation Introduction to Philosophy	3	Humanities
BIOL 101	General Biology I	4	SCIN130	Introduction to Biology with Lab	4	Science
Year 1, Semester 2						
ENGL 102	Writing for Arts & Humanities	3	ENGL102	Effectiveness in Writing	3	English
MATH 108	Pre-Calculus	4		General Elective	4	General Elective
PSCI 101	American Federal Government	3	POLS210	American Government I	3	Political Science
BIOL 102	General Biology II	4		General Education Science	4	Science
Year 2, Semester 1						
ENGL 208	Survey of World Literature	3	LITR201	World Literature since the Renaissance	3	Literature
Select ONE PSYC 203 SOCI 203	 Introduction to Psychology General Sociology	3	 PSYC101 SOCI111	 Introduction to Psychology Introduction to Sociology	3	Social Science
MATH 106	Trigonometry	3	MATH111	Trigonometry	3	Core
Select ONE HIST 201 HIST 202	 US History to 1877 US History since 1877	3	 HIST101 HIST102	 American History to 1877 American History since 1877	3	History
Elective	Restricted – Choose with advisor	3		General Elective	3	General Elective
Year 2, Semester 2						
ENGL 110	Technical Writing	3	ENGL220	Technical Writing	3	Core
MATH 114	Elementary Probability & Stats	3		General Elective	3	General Elective
MATH 207	Calculus I	4	MATH225	Calculus (3 credit hours) General Elective (1 credit hour)	3 1	Core General Elective
Select ONE ECON 205 ECON 206	 Principles of Macroeconomics Principles of Microeconomics	3	 ECON101 ECON102	 Microeconomics Macroeconomics	3	Social Science
Elective	Restricted – Choose with advisor	3		General Elective	3	General Elective
Total Transfer Credits for AS General Studies Mathematics		**61**	**Transferable from A.S. to BS**		**61**	

> **Please Note: In order to transfer courses from BRCTC to APUS, the student must earn a grade of "C" or better.**

Additional Required Courses for Bachelor of Science – It is encouraged that the student complete the course at BRCTC					
Blue Ridge Community & Technical College			**American Public University System**		
Course #	**Course Title**	**Credits**	**APUS Area**		**Credits**
Select one 1 credit hour elective course*		1	Elective	General Elective	1
Total Non-AS/BS Applicable credits to earn		**1**			

* It is recommended to take a GSPE course.

Degree Overview	
Transfer Credit from AS General Studies Mathematics	**61**
Non-AS/BA Applicable Only Transfer Credit	**1**
Total Transferable Credit	**62**
Total Credit to Earn at APUS	**60**
Total Credits earned between BRCTC and APUS	**122**

Required APUS Courses for BS in Mathematics		
Course #	**Course Title**	**Credits**
First Course Requirement		
COLL100	Foundations of Online Learning	3
Core Requirements		
BUSN312	Operations Research	3
MATH200	Analytic Geometry	3
MATH210	Discrete Math	3
MATH220	Linear Algebra	3
MATH226	Calculus II	3
MATH227	Calculus III	3
MATH239	Data Analysis and Presentation	3
MATH240	Differential Equations	3
MATH302	Statistics	3
MATH320	Mathematical Modeling	3
MATH328	Probability Theory with Applications	3
Choose _ONE_ Concentration below:		
Concentration in Applied Mathematics		
MATH305	Real Analysis	3
MATH360	Mathematics History and Development	3
MATH412	Graph Theory	3
MATH418	Topology	3
MATH419	Set Theory	3
MATH460	Principles of Applied Math	3
MATH470	Measurement Theory	3
Concentration in Operations Research		
MATH330	Linear Operations	3
MATH340	Multivariate Statistics	3
MATH370	Waiting Line Models and Systems	3
MATH375	Inventory Models and Systems	3
MATH410	Design of Experiments	3
MATH415	Operational Simulation	3
MATH420	Game Theory and Decision Models	3
Concentration in Statistics		
MATH325	Linear Regression I	3
MATH335	Non-Parametric Statistics	3
MATH340	Multivariate Statistics	3
MATH360	Mathematics History and Development	3
MATH410	Design of Experiments	3
MATH431	Linear Regression II	3
MATH440	Stochastic Processes	3
Final Course Requirements		
MATH499	Senior Seminar in Mathematics	3
Total Credits to Earn		**60**
Total Credits for BS in Mathematics		**122**

Please note, this crosswalk is a guide for the 2016 catalog. If you are not in a 2016 catalog, this information may not be accurate. Please contact info@apus.edu for more information.
Revised 3.28.17 for updated Science course numbering.