

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			<i>Transfers to APUS as</i>			
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	World History to 1500	3	HIST111	World Civilization before 1650	3	History
HIST 102	World History since 1500		HIST112	World Civilization since 1650		
Select ONE						
ART 103	Intro to Visual Art	3	ARTH200	Art Appreciation	3	Humanities
MUSC 111	Introduction to Music		MUSI200	Music Appreciation		
PHIL 101	Introduction to Philosophy		PHIL101	Introduction to Philosophy		
CAHS 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
CAHS 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	Introduction to Psychology	3	PSYC101	Introduction to Psychology	3	Social Science
SOCI 203	General Sociology		SOCI111	Introduction to Sociology		
MATH 106	Trigonometry	3	MATH111	Trigonometry	3	Core
Select ONE						
HIST 201	US History to 1877	3	HIST101	American History to 1877	3	History
HIST 202	US History since 1877		HIST102	American History since 1877		
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)	3	Core
				General Elective (1 credit hour)	1	General Elective
Select ONE						
ECON 205	Principles of Macroeconomics	3	ECON101	Microeconomics	3	Social Science
ECON 206	Principles of Microeconomics		ECON102	Macroeconomics		
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.

Please note, this crosswalk is a guide for the 2015 catalog. If you are not in a 2015 catalog, this information may not be accurate. Please contact info@apus.edu for more information.

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	
Select one 1 credit hour elective course*		1	Elective	General Elective
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 <u>ONE</u> 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

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