

BLUE RIDGE COMMUNITY & TECHNICAL COLLEGE (BRCTC) A.A. LIBERAL ARTS, MATHEMATICS CONCENTRATION TO AMERICAN PUBLIC UNIVERSITY SYSTEM (APUS) B.S. MATHEMATICS TRANSFER GUIDE			
APUS DEGREE REQUIREMENTS	BRCTC COURSES	CREDITS APPLIED	CREDITS NEEDED AT APUS
General Education Requirements (30 Credits Required)		30	0
Communication: Writing, Oral, & Multimedia (COMM) (9 Credits Required)		9	0
COMM120: Information and Digital Literacy <i>(Required)</i>	<i>fulfilled by Gen Ed Block†</i>	3	
ENGL110: Making Writing Relevant <i>(Required)</i>	ENGL 101 Written English	3	
ENGL102: Effectiveness in Writing <i>(Required)</i>	ENGL 102 Writing for the Arts & Humanities	3	
Arts & Humanities (ARHU) (6 Credits Required)		6	0
APUS General Education ARHU Course Choice	BRCTC ART/ENGL/MUSC Option	3	
APUS General Education ARHU Course Choice	BRCTC ENGL (Literature) Option	3	
History (HIST) (3 Credits Required)		3	0
APUS General Education HIST Course Choice	BRCTC HIST Option	3	
Civics, Political & Social Sciences (SSPS) (6 Credits Required)		6	0
APUS General Education SSPS Course Choice	BRCTC ECON Option	3	
APUS General Education SSPS Course Choice	BRCTC PSYC/SOCI Option	3	
Mathematics and Applied Reasoning (MAAR) (3 Credits Required)		3	0
MATH110: College Algebra <i>(Required)</i>	BRCTC MATH Option* <i>(APUS recommends MATH 105)</i>	3	
Natural Sciences with Lab (NASC) (3 Credits Required)		3	0
APUS General Education NASC Course Choice	BRCTC BIOL/CHEM/PHYS Pair Option	3	
Credit used to fulfill General Education requirements†			
	<i>MATH 207 Calculus I - split</i>	<i>1</i>	
	<i>BRCTC Free Electives</i>	<i>2</i>	

Electives (24 Credits Required)		21	3
Choose any additional courses to meet degree requirements**	BRCTC BIOL/CHEM/PHYS Pair Option - <i>split</i>	5	
	BRCTC PSCI Option	3	
	BRCTC (Mathematics Concentration) HIST Option	3	
	COMM 202 Fundamentals of Speech (APUS COMM200)	3	
	MATH 108 Pre-Calculus (APUS MATH110/MATH111)	4	
	MATH 114 Elementary Probability & Statistics (APUS MATH120)	3	
Major Requirements (42 Credits Required)		9	33
MATH111: College Trigonometry	MATH 106 Trigonometry	3	
MATH200: Analytic Geometry			3
MATH210: Discrete Mathematics			3
MATH225: Calculus I	MATH 207 Calculus I	3	
MATH220: Linear Algebra			3
MATH226: Calculus II			3
MATH227: Calculus III			3
MATH240: Differential Equations			3
ENGL220: Technical Writing	ENGL 110 Technical Writing & Communication	3	
MATH239: Data Analysis and Presentation			3
MATH302: Statistics			3
MATH328: Probability Theory with Applications			3
BUSN312: Operations Research			3
MATH320: Mathematical Modeling			3
Concentration Requirements^ (21 Credits Required)		0	21
See catalog for course options			21
Final Program Requirement (3 Credits Required)		0	3
MATH499: Senior Seminar in Mathematics	MUST BE TAKEN AS FINAL COURSE		3
120 Credits Needed for Graduation		60	60

*†Per APUS' General Education Block policy, students with a conferred Associate of Arts or Associate of Science degree from a regionally-accredited higher education institution will be awarded transfer credit for APUS' General Education requirements (excluding **Required**). As the amount of transfer credit may not exceed the sum of transferrable credit the student earned, the amount of transfer credit applicable to the Electives will be reduced by the sum of General Education Block credit awarded.*

^Available concentrations for this program: 1) Applied Mathematics, 2) Data Science, 3) Operations Research, 4) Statistics

**Credit variances in academic placement and credit award can occur based on student course selections and APUS' program requirements.*

***Any transferable course not used to fulfill General Education or Major/Concentration requirements may be taken. Please note remedial/developmental and vocational credit is not transferrable.*

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