

Blue Ridge Community & Technical College (BRCTC) A.S. Liberal Arts (Mathematics Concentration) 2018-2019 Catalog		American Public University System (APUS) B.S. Mathematics April 2019	
Course # and Title	Credits	Course # and Title	Credits
		General Education Requirements Fulfilled	30 of 30
		Communication: Writing, Oral, and Multimedia (COMM)	9
	†	COMM120: Information and Digital Literacy - fulfilled by Gen Ed Block†	3
ENGL 101: Written English I (ENGL110)	3	ENGL110: Making Writing Relevant	3
ENGL 102: Writing for the Arts & Humanities (ENGL102)	3	ENGL102: Effectiveness in Writing (Required)	3
		Arts and Humanities (ARHU)	6
BRCTC Humanities Option*	3	APUS General Education ARHU Course Choice	3
ENGL 208 Survey of World Literature I (LITR201)	3	APUS General Education ARHU Course Choice	3
		Civics, Political & Social Sciences (SSPS)	6
BRCTC Economics Option*	3	APUS General Education SSPS Course Choice	3
BRCTC Political Science Option*	3	APUS General Education SSPS Course Choice	3
		History (HIST)	3
BRCTC World History Option*	3	APUS General Education HIST Course Choice	3
		Mathematics and Applied Reasoning (MAAR)	3
MATH 105 Algebra (MATH110)	3	MATH110: College Algebra (Required)	3
		Natural Sciences (NASC)	3
BIOL 101 General Biological Science I (BIOL180)	3	APUS General Education NASC Course Choice	3
		Elective Requirements Fulfilled	21 of 24
BRCTC Free Electives*	2	Credit used to fulfill General Education requirements†	3
BIOL 101 General Biological Science I - split	1		
BIOL 102 General Biological Science II (BIOL134)	4	Credit applies to APUS Elective Requirements**	21
BRCTC US History Option*	3		
MATH 108 Pre-calculus	4		
MATH 114 Elem Probability & Statistics (MATH120)	3		
BRCTC Social Science Option*	3		
COMM 202 Fundamentals of Speech (COMM200)	3		
MATH 207 Calculus I - split	1		
		Major Requirements Fulfilled	9 of 42
MATH 106 Trigonometry (MATH111)	3	MATH111: College Trigonometry	3
		MATH200: Analytic Geometry	0 of 3
		MATH210: Discrete Mathematics	0 of 3
MATH 207 Calculus I (MATH225)	3	MATH225: Calculus I	3
		MATH220: Linear Algebra	0 of 3
		MATH226: Calculus II	0 of 3
		MATH227: Calculus III	0 of 3
		MATH240: Differential Equations	0 of 3
ENGL110 Technical Writing & Communication (ENGL220)	3	ENGL220: Technical Writing	3
		MATH239: Data Analysis and Presentation	0 of 3
		MATH302: Statistics	0 of 3
		MATH328: Probability Theory with Applications	0 of 3
		BUSN312: Operations Research	0 of 3
		MATH320: Mathematical Modeling	0 of 3
		Applied Mathematics Concentration Requirements Fulfilled	0 of 21
		MATH305: Real Analysis	0 of 3
		MATH330: Linear Optimization	0 of 3
		MATH360: Mathematics History and Development	0 of 3
		MATH412: Graph Theory	0 of 3
		MATH470: Measurement Theory	0 of 3
		MATH418: Topology	0 of 3
		MATH460: Principles of Applied Mathematics	0 of 3
		Operations Research Concentration Requirements Fulfilled	0 of 21
		MATH330: Linear Optimization	0 of 3
		MATH340: Multivariate Statistics	0 of 3
		MATH360: Mathematics History and Development	0 of 3
		MATH375: Inventory Models and Systems	0 of 3
		MATH410: Design of Experiments	0 of 3
		MATH415: Operational Simulation	0 of 3
		MATH420: Game Theory and Decision Models	0 of 3
		Statistics Concentration Requirements Fulfilled	0 of 21
		MATH325: Linear Regression I	0 of 3
		MATH335: Non Parametric Statistics	0 of 3
		MATH340: Multivariate Statistics	0 of 3
		MATH360: Mathematics History and Development	0 of 3
		MATH410: Design of Experiments	0 of 3
		MATH431: Linear Regression II	0 of 3
		MATH440: Stochastic Processes	0 of 3
		Final Program Requirement Fulfilled	0 of 3
		MATH499: Senior Seminar in Mathematics (to be taken as the last course before graduation)***	0 of 3
Total Credit Applied Towards APUS Degree	60	Total Program Requirements Fulfilled	60 of 120
*Credit variances in academic placement and credit award can occur based on student course selections and on the APUS' 2018 catalog program requirements.		†Note: In order to transfer courses to APUS, the student must earn a grade of "C" or better.	
†Per APUS' General Education Block policy, the student's APUS General Education requirements (excluding Required) will be fulfilled on the merit of a conferred Associate of Arts or Associate of Science degree. As the amount of transfer credit may not exceed the sum of transferable 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.		**Any transferable course not counted toward General Education or Major requirements may be taken. Please note, courses such as developmental, practicum, internships, clinical, and vocational courses are not transferable.	
		***Prerequisite: Senior Standing and completion of all major courses prior to enrollment. Not eligible for transfer credit.	