

**BLUE RIDGE COMMUNITY & TECHNICAL COLLEGE
A.A. LIBERAL ARTS NATURAL SCIENCES CONCENTRATION
TO AMERICAN PUBLIC UNIVERSITY SYSTEM
B.S. NATURAL SCIENCES
APRIL 2019 CATALOG TRANSFER GUIDE**

APUS DEGREE REQUIREMENTS	BRCTC COURSES	APUS EQUIVALENCY	CREDITS APPLIED	CREDITS NEEDED AT APUS
General Education Requirements			18	12
Communication: Writing, Oral, and Multimedia (COMM)	Credits:		6	3
COMM120: Information and Digital Literacy		fulfilled by Gen Ed Block†	3	
ENGL110: Making Writing Relevant	ENGL 101: Written English I	ENGL110	3	
ENGL221: Scientific Writing (Required)				3
Arts and Humanities (ARHU)	Credits:		3	3
PHIL202: Philosophy of Science (Required)				3
APUS General Education ARHU Course Choice	BRCTC Humanities Option*		3	
Civics, Political & Social Sciences (SSPS)	Credits:		6	0
APUS General Education SSPS Course Choice	BRCTC Economics Option*		3	
APUS General Education SSPS Course Choice	PSCI 101 American Federal Government	POLS210	3	
History (HIST)	Credits:		0	3
HIST270: History of Science (Required)				3
Mathematics and Applied Reasoning (MAAR)	Credits:		3	0
MATH111: College Trigonometry (Required)	MATH 106 Trigonometry	MATH111	3	
Natural Sciences with Lab (NASC)	Credits:		0	3
SPST180: Introduction to Astronomy (Required)				3
Credit used to fulfill General Education requirements†				
Credit used to fulfill General Education requirements†	BRCTC Social Science Option*		3	

APUS DEGREE REQUIREMENTS	BRCTC COURSES	APUS EQUIVALENCY	CREDITS APPLIED	CREDITS NEEDED AT APUS
Major Requirements	Credits:		19	17
CHEM133: General Chemistry I with Lab	CHEM 127: General, Organic & Biochem I	CHEM133	4	
BIOL133: General Biology I with Lab	BIOL 101 General Biological Science I	BIOL133	4	
CHEM134: General Chemistry II with Lab	CHEM 128: General, Organic, & Biochem II	CHEM134	4	
BIOL134: General Biology II with Lab	BIOL 102 General Biological Science II	BIOL134	4	
GEOG103: Physical Geography				3
MATH225: Calculus	MATH 207 Calculus I	MATH225	3	

Choose one of the following: PHYS133: Elements of Physics with Lab, or SCIN233: Physics I with Lab				4
MATH226: Calculus II				3
Choose one of the following: PHYS134: Elements of Physics II with Lab or SCIN234: Physics II with Lab				4
MATH302: Statistics				3
Concentration Requirements (32 credits required)	Credits:			0
~See course catalog for course and concentration options				32
Final Program Requirement	Credits:			0
SCIN499: Senior Seminar in Natural Sciences (to be taken as the last course before graduation)***	MUST BE TAKEN AT APUS			3
Electives (19 credits required)	Credits:			19
Choose any electives to meet degree requirements. Note minimum requirements for upper-level coursework.	ENGL 102 Writing for the Arts & Humanities	ENGL102	3	
	BRCTC World History Option*		3	
	ENGL 208 Survey of World Literature I	LITR201	3	
	MATH 105 Algebra	MATH110	3	
	MATH 108 Pre-calculus		4	
	MATH 114 Elem Probability & Statistics	MATH120	3	
	COMM 202: Fundamentals of Speech	COMM200 Excessive/Non-Applicable Transfer Credit	0	
	MATH 207 Calculus I - split	Excessive/Non-Applicable Transfer Credit	0	
Total Minimum Credits Needed for Graduation: 120	Total Credits:			56
				64

Notes:

*Credit variances in academic placement and credit award can occur based on student course selections and on the APUS' 2019 catalog program requirements.

†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 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.

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

**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.