

BLUE RIDGE COMMUNITY & TECHNICAL COLLEGE (BRCTC) A.A. LIBERAL ARTS, NATURAL SCIENCE CONCENTRATION TO AMERICAN PUBLIC UNIVERSITY SYSTEM (APUS) B.S. NATURAL SCIENCES TRANSFER GUIDE			
APUS DEGREE REQUIREMENTS	BRCTC COURSES	CREDITS APPLIED	CREDITS NEEDED AT APUS
General Education Requirements (30 Credits Required)		18	12
Communication: Writing, Oral, & Multimedia (COMM) (9 Credits Required)		6	3
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	
ENGL221: Scientific Writing <i>(Required)</i>			3
Arts & Humanities (ARHU) (6 Credits Required)		3	3
PHIL202: Philosophy of Science <i>(Required)</i>			3
APUS General Education ARHU Course Choice	BRCTC ART/ENGL/MUSC Option	3	
History (HIST) (3 Credits Required)		0	3
HIST270: History of Science <i>(Required)</i>			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
MATH111: College Trigonometry <i>(Required)</i>	MATH 106 Trigonometry	3	
Natural Sciences with Lab (NASC) (3 Credits Required)		0	3
SPST180: Introduction to Astronomy <i>(Required)</i>			3
Credit used to fulfill General Education requirements†			
	<i>BRCTC HIST Option</i>	3	
Electives (20 Credits Required)		20	0
Choose any additional courses to meet degree requirements**	ENGL 102 Writing for the Arts & Humanities (APUS ENGL102)	3	
	BRCTC ENGL (Literature) Option	3	
	MATH 207 Calculus I - <i>split</i>	1	
	MATH 108 Pre-Calculus (APUS MATH110/MATH111)	4	
	BRCTC PSCI Option	3	
	COMM 202 Fundamentals of Speech (APUS COMM200)	3	
	BRCTC MATH Option	3	
	<i>MATH 114 Elementary Probability & Statistics (APUS MATH120)</i>	<i>excessive credit - 3</i>	
	<i>CHEM 128 General, Organic & Biochem II - split</i>	<i>excessive credit - 1</i>	

Major Requirements (36 Credits Required)		15	21
CHEM133: General Chemistry I with Lab	CHEM 127 General, Organic & Biochem I	4	
BIOL133: General Biology I with Lab	BRCTC BIOL/PHYS Option* (APUS recommends BIOL 101 or PHYS 103)	4	
CHEM134: General Chemistry II with Lab			4
BIOL134: General Biology II with Lab	BRCTC BIOL/PHYS Option* (APUS recommends BIOL 102 or PHYS 104)	4	
GEOG103: Physical Geography			3
MATH225: Calculus	MATH 207 Calculus I	3	
PHYS133: Elements of Physics with Lab -OR- SCIN233: Physics I with Lab			4
MATH226: Calculus II			3
PHYS134: Elements of Physics II with Lab -OR- SCIN234: Physics II with Lab			4
MATH302: Statistics			3
Biology Concentration Requirements^ (28 Credits Required)		3	25
BIOL240: Elements of Biological Chemistry	CHEM 128 General, Organic & Biochem II	3	
BIOL241: Cell Biology			3
SCIN211: Principles of Genetics with Lab			4
BIOL242: Evolutionary Biology			3
EVSP416: General Ecology			3
Concentration electives - see catalog for course options			12
Final Program Requirement (6 Credits Required)		0	6
SCIN400: Research Methods in Natural Sciences			3
SCIN490: Independent Study - Natural Sciences -OR- SCIN499: Senior Seminar in Natural Sciences	MUST BE TAKEN AS FINAL COURSE		3
120 Credits Needed for Graduation		56	64
<p><i>†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.</i></p> <p><i>^Credit mapped toward the concentration that benefits students the most. Other available concentration for this program: 1) Earth Science</i></p> <p><i>*Credit variances in academic placement and credit award can occur based on student course selections and APUS' program requirements.</i></p> <p><i>**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.</i></p> <p>Note: In order to transfer courses to APUS, the student must earn a grade of "C" or better.</p>			