Associate of Science Degree in Math/Science, Biology Option at Brookdale Community College

And

Bachelor of Science Degree in Biology, General at William Paterson University

AS Mathematics/Science- Biology Option				
Brookdale Courses	Credits	WPU Equivalency	Credits	
	Semes	<u>ter 1</u>	•	
BIOL 101 General Biology	4	BIO 1630 General Biology, CMG	4	
ENGL 121 The writing process	3	ENG 1100 College Writing	3	
CHEM 101 General Chemistry I	5	CHEM 1600 General Chemistry I	4	
Social Sciences Credits	3			
	Semes	ter 2	•	
BIOL 102 General Biology II	4	BIO 1620 General Biology, EEB	4	
CHEM 102 General Chemistry II	5	CHEM 1620 General Chemistry II	4	
ENGL 122 Writing and Research	3	Elective Credit	3	
Humanities Credits	3			
	Semes	ter 3	•	
BIO 213 Microbiology	4	BIO 1700 Basic Microbiology or BIO 3200 Microbiology with a grade of B or higher in BIOL 213	4	
CHEM 203 Organic Chemistry I	5	CHEM 2570 Organic Chemistry I	4	
MATH 131 Statistics	4	MATH 1300 Elementary Statistics (Department will sub for MATH 2300 Statistics I)	4	
Humanities or Social Sciences Credits	3			
	Semes	ter 4	•	
BIOL 208 Ecology and Field Biology	4	Elective Credit	4	
PHYS 121 General Physics I	4	PHYS 2600 General Physics I	4	
CHEM 204 Organic Chemistry II	5	CHEM 2580 Organic Chemistry II	4	
Tech/Gen Ed. Credits	3			
BS- Biology, Geno	eral (60 cre	dits required for the major)		
		Biology Major Requirements		
		BIO 2050 Cell Biology	4	
		BIO 2060 General Genetics	4	
		BIO 2040 General Biology: Physiology	4	
		Biology Plant Elective (Choose 1)		
		BIO 3610 General Botany	4	
		BIO 3650 Plant Physiology	4	
		BIO 3350 Field Botany	3	
		BIO 4630 Terrestrial Plant Ecology	4	

	Biology Major Supporting Courses	
	(Choose 1 course) MATH 1600 Calculus I	4
		4
	Biology Major Electives (Choose 3 courses)	
	BIO 3020 Human Heredity	3
	BIO 3080 Animal Physiology	4
	BIO 3180 Zoology	4
	BIO 3330 Field Entomology	4
	BIO 3350 Field Botany	3
	BIO 3400 Ecology	4
	BIO 3450 Conservation Biology	3
	BIO 3500 Animal Behavior	3
	BIO 3520 Economic Botany	3
	BIO 3610 General Botany	4
	BIO 3650 Plant Physiology	4
	BIO 3720 Mathematical Models in the	4
	Biological Sciences	
	BIO 4020 Aquatic Ecology	4
	BIO 4110 Physiology of Human	3
	Reproduction and Fertility	
	BIO 4150 Evolutionary Physiology	4
	BIO 4160 Comparative Animal Physiology	4
	BIO 4170 Histology	4
	BIO 4210 Developmental Biology	4
	BIO 4220 Human Physiology	3
	BIO 4340 Genomics and Bioinformatics	4
	BIO 4330 Evolutionary Medicine	3
	BIO 4440 Evolution	3
	BIO 4500 Molecular Biology of Prokaryotes	4
	BIO 4600 Pharmacology	3
	BIO 4630 Terrestrial Plant Ecology	4
	BIO 4700 Bioethics	3
	BIO 4740 Neuroscience	4
	BIO 4840 Scanning Electron Microscopy	4
	BIO 4850 Transmission Electron	4
lotes:	Microscopy	

^{1.} William Paterson University will accept all associate degree credits under this program-to-program articulation agreement, including up to have of the William Paterson University major required credits, from New Jersey community college students who enroll at William Paterson University

^{2.} William Paterson University recommends students to take two semesters of one foreign language at the community college. Two semesters of American Sign Language can also fulfill the foreign language requirement.