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

And

Bachelor of Science Degree in Mathematics at William Paterson University

AS Mathematics/Science- Mathematics Option					
Brookdale Courses	<u>Credits</u>	<u>WPU</u> Equivalency	<u>Credits</u>		
Semes	ter 1				
MATH 131 Statistics	4	MATH 1300 Elementary Statistics	4		
ENGL 121 The writing process	3	ENG 1100	3		
MATH 171 Calculus	4	MATH 1600 Calculus I	4		
Humanities Credits	3 - 4				
Semes	ter 2	•	•		
MATH 172 Calculus II	4	MATH 1610 Calculus II	4		
PHYS 121 General Physics I	4	PHYS 2600 General Physics I	4		
ENGL 122 Writing and Research	3	Elective Credit	3		
Social Sciences Credits	3				
Summer	<u>· Term</u>				
MATH 285 Linear Algebra	3	MATH 2020 Linear Algebra	3		
Semes	ter 3	·			
MATH 273 Calculus III	4	MATH 2010 Calculus III	4		
PHYS 122 General Physics II	4	PHYS 2610 General Physics II	4		
Humanities or Social Sciences Credits	3 - 4				
COMP 126 Computer Logic and Design	3	CS 2010 Computer Info & Technology	3		
COMP 132 Structured Programming Using C++	3	CS 2300 Computer Science I	3		
Semes	ter 4				
MATH 274 Elementary Differential Equations	4	MATH 3220 Differential Equation	4		

Gen. Ed. Credits	3		3
COMP 171 Programming I	3	Elective Credit	3
BS Mathematics (55 cr	edits required for t	he major)	•
		Mathematics	
		Core Courses	
		MATH 2000	3
		Logic and	
		Methods of	
		Higher	
		Mathematics	
		MATH 3010	3
		Modern Algebra	
		MATH 3240	4
		Probability and	
		Statistics	
		MATH 4220	3
		Complex Analysis	
		MATH 4230 Real	3
		Analysis	2
		MATH 4900	2
		Math Research	
		Experience	
		<u>Mathematics</u>	
		Electives (Choose 4 courses. One	
		<u>must be at the</u>	
		4000 level)	
		MATH 3110	3
		Number Theory	5
		MATH 3230	3
		Foundations of	5
		Geometry	
		MATH 3260	3
		Mathematical	
		Models in Finance	
		and Interest	
		Theory	
		MATH 3320	3
		Statistical	
		Computing	
		MATH 3340	3
		Applied	
		Regression	
		Analysis	
		MATH 3350	3
		Introduction to	

	Numerical	
	Analysis	
	MATH 3800	3
	Linear and	
	Nonlinear	
	Optimization	
	MATH 3990	1 - 6
	Selected Topics	
	MATH 4010	3
	Applied Algebra	
	MATH 4110	3
	Advanced	
	Discrete Math	
	MATH 4120	3
	Time Series	
	Modeling	
	MATH 4130	3
	Experimental	
	Design for	
	Statistics	
	MATH 4150	3
	Topics From	
	Applied Math	
	MATH 4210	3
	Mathematical	
	Statistics	
	MATH 4250	3
	Introduction to	
	Topology	
	MATH 4990	1 - 6
	Independent Study	
Notes:		

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.

3. Potential curriculum changes will take place in the 21-22 academic year