Appendix A

PCCC A.S.L.A. Mathematics Option to WPU B.A. Mathematics

PCCC Courses – A.S.L.A.			WPU Equivalency B.A.		
Course Code	**Course Name**	**Cr**	**Course Code**	**Course Name**	**Cr**
Semester 1					
CIS 108	Programming Fundamentals	3		Degree Credit	3
EN 101	Composition I	3	ENG 1100	College Writing	3
HI 101	History of Western Civilization I	3	HIST 1010	Foundations of Western Civilization	3
MA 109	Pre-Calculus Mathematics	4	MATH 1160	Pre-Calculus	3
PS 101 or SO 101	Introduction to Psychology or Introduction to Sociology	3	PSY 1100 or SOC 1010	General Psychology or Principles of Sociology	3
	Semester Credits	16		Semester Credits	16
Semester 2					
CIS 165	Fundamentals of C++ Programming	4	CS 2300	Computer Science II	4
EN 102	Composition II	3	ENG 1500	Experiences in Literature	3
MA 120	Calculus I	4	MATH 1600	Calculus I	4
PH 101 Or PH 106	Introdcution to Philosophy or Introduction to Ethics	3	PHIL 1100 or PHIL 2000	Introduction to Philosophy or Ethics	3
	Semester Credits	14		Semester Credits	14
Semester 3					
MA 121	Calculus II	4	MATH 1610	Calculus II	**4**
BS 103 or BS 104 or BS 203 or BS 207 or BS 212 or SC 104 or SC 206 or SC 202	Anatomy & Physiology I or Anatomy & Physiology II or Microbiology or Cell Biology or Biology of Aging or Introduction to Environmental Science or Environmental Ethics or Introduction to Geology	3-4	BIO 1180 or BIO 1190 or BIO 1700 or BIO 2050 or ENV 1100 or ENV 1150	Basic Anatomy & Physiology I or Basic Anatomy & Physiology II or Basic Microbiology or Cell Biology or Free Elective/minor course or Environmental Sustainability or Free Elective/minor course or General Geology	3-4
AE 101 or MU 106	Appreciation of Art or Appreciation of Music	3	ARTH 1010 or MUSI 1200	Understanding Art or Music Appreciation	3
MA 150 or MA 200	Discrete Structures or Elementary Linear Algebra	4	Degree Credit or MATH 1200	Degree Credit or Finite Math	4
	Semester Credits	14		Semester Credits	14
Semester 4					

MA 201	Calculus III	4	MATH 2010	Calculus III	4
MA 202	Differential Equations	4	MATH 3220	Differential Equations	**4**
BS 103 or BS 104 or BS 203 or BS 207 or BS 212 or SC 104 or SC 206 or SC 202	Anatomy & Physiology I or Anatomy & Physiology II or Microbiology or Cell Biology or Biology of Aging or Introduction to Environmental Science or Environmental Ethics or Introduction to Geology	3-4	BIO 1180 or BIO 1190 or BIO 1700 or BIO 2050 or ENV 1100 or ENV 1150	Basic Anatomy & Physiology I or Basic Anatomy & Physiology II or Basic Microbiology or Cell Biology or Free Elective/minor course or Environmental Sustainability or Free Elective/minor course or General Geology	3-4
	Free Elective	4		Free Elective/minor course	4
	Semester Credits	16		Semester Credits	16
Credit Total		***60***	46 credits for the major		
			Semster 5		
			MATH 2000	Logic and Methods of Higher Mathematics	3
			MATH 2020	Linear Algebra	3
				World Language I or ASL I	3
				Choose a major elective requirement	3
				Free Elective/minor course	3
				Semester Credits	15
			Semester 6		
			MATH 3240	Probability and Statistics	4
			MATH 2200	Python for Exploration	3
				World Language II or ASL II	3
				Choose a major elective requirement	3
				Free Elective/minor course	3
				Semester Credits	16
			Semester 7		
			MATH 3010	Modern Algebra	3
			MATH 4230	Real Analysis	3
				Choose a major elective requirement	3
				Choose a major elective requirement	3

	Free Elective/minor course	3
	Semester Credits	15
Semester 8		
MATH 4900	Mathematics Research Experience	2
	Choose a major elective requirement	3
	Free Elective/minor course	3
	Free Elective/minor course	3
	Free Elective/minor course	3
	Semester Credits	14
	Credit total	120

Mathmatics Elective Requirement (BS) (Choose 4)
Select four (4) courses; at least one must be at the 4000-level
MATH 3110 Number Theory
MATH 3230 Foundations of Geometry
MATH 3260 Mathematical Models in Finance and Interest Theory
MATH 3260 Statistical Computing
MATH 3340 Applied Regression Analysis
MATH 3350 Intriduction to Numerical Analysis
MATH 3800 Linear and Non-Linear Optimization
MATH 3390 Slect Topics (Credits: 1.0-6.0)
MATH 4010 Aplied Algebra
MATH 4110 Advanced Discrete Math
MATH 4130 Experimental Design for Statistics
MATH 4150 Topics from Applied Math
MATH 4210 Mathematical Statistics
MATH 4250 Introduction to Topology
MATH 4270 Mathematical Models Finance II
MATH 4300 Derivative Markets
MATH 4990 Independent Study (Credits: 1.0-6.0)
CISE 4230 Math Methods II

Notes: 1. William Paterson University will accept all associate degree credits under this program-to-program articulation agreement, including up to half 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. WP Online students should always refer to the semester course schedule when choosing electives, as elective course offerings may vary each semester.

Effective 3/12/2024