Liberal Arts and Science - Mathematics and Science, A.S.			Applied Mathematics		
Course #	**Course Title**	**Credits**	**Course #**	**Equivalent Course Title**	**Credits Accepted**
FORM 102	College Forum	1	ELEC000	General Elective	1
ENGL 101	English Composition I	3	ENG 101	First Year Composition	3
	Humanities Eleective	3		Humanities General Education	3
	Mathematics Core (MATH 180)	4	MAT151	Calculus I	4
	Science Sequence(CISS 110)	4	CSCC 000	Computer Science Elective	4
ENGL 102	English Composition II	3	HUM 001	Humanities General Education	3
	Restricted Elective	3		SUNY GER In either: American History (AH), Western Civilization (WC), Other World Civilizations (OC), the Arts (AR), or Foreign Language (FL).	3
	Restricted Elective	3		SUNY GER In either: American History (AH), Western Civilization (WC), Other World Civilizations (OC), the Arts (AR), or Foreign Language (FL).	3
	Mathematics Core (MATH 190)	4	MAT152	Calculus II	4
	Science Core (PHY 150)	4	PHY 201	Physics I (calc-based)	4
	Mathematics Core (MATH 210)	4	MAT253	Calculus III	4
	Math /Science Restricted Elective (MATH 135)	4	STA100	Statistical Methods	4
	Science Core	4	PHY202	Physics II (calc-based)	4
	Social Science Elective	3	SOS 001	Social Science GER	3
	Mathematics Core (MATH220)	4	MAT260	Ordinary Differential Equations and Series Solutions	4
	Math /Science Restricted Elective (CISS 111)	4	CS240	Data Structures	4
	Math /Science Restricted Elective (MATH 200)	3	MAT280	Linear Algebra	3
	Free Electives	3		SUNY GER In either: American History (AH), Western Civilization (WC), Other World Civilizations (OC), the Arts (AR), or Foreign Language (FL).	3
			CS 108	Computing Fundamentals	4
			MAT 370	Applied Probabilty	4
			MAT 381	Modern Algebra	4
			COM 306/308	Upper Division Writing	4
				Open Elective	4
				Open Elective	4
				Open Elective	4
				Open Elective	4
			MAT 420	Complex Variables	4
			MAT 480	Advanced Linear Algebra	3
				Open Elective	4
				Open Elective	4
			MAT 425	Real Analysis	4
				Open Elective	4
				Math Elective	4
				Math Elective	4
Total Credits		61		Total Credits Transferred	61
				Total Remaining at SUNY POLY	64
				Total for Bachelors	125

Math Articulations:	HVCC			SUNY Poly	
Course #	**Course Title**	**Credits**	**Course #**	**Equivalent Course Title**	**Credits**
MATH135	Elementary Statistics	4	STA100	Statistical Methods	4
MATH150	College Algebra with Trigonometry	4	MAT110	College Algebra	4
MATH165	Basic Calculus with Analytic Geometry	4	MAT112	Elements of Calculus	4
MATH170	Precalculus	4	MAT120	Precalculus	4
MATH180	Calculus I	4	MAT151	Calculus I	4
MATH183	Discrete Mathematics	4	MAT115	Finite Mathematicss	4
MATH190	Calculus II	4	MAT152	Calculus II	4
MATH200	Linear Algebra	3	MAT280	Linear Algebra	3
MATH205	Mathematical Statistical Analysis	4	MAT225	Applied Statistical Analysis	4
MATH210	Calculus III: Multivariate Calculus with Linear Algebra	4	MAT253	Calculus III	4
MATH220	Calculus IV: Differential Equations	4	MAT260	Ordinary Differential Equations and Series Solutions	4