| Mohawk Valley Community College LAS: Mathematics and Science - Mathematics | | | | | SUNY Polytechnic Institute B.S Applied Mathematics | | | | |
Course #	Course Title	SUNY Gen Ed		Credits Granted	Course #	Equivalent Course Title	SUNY Gen Ed		Credits Accepted
CF 100	College Foundation Seminar			1	FYS 100	First Year Seminar			1
EN101	English 1: Composition	X		3	ENG 101	Freshman Composition	X		3
MA150	Pre-Calculus	X		4	MAT 120	Precalculus	X		3
	Social Science Elective (see 'B' below)	X		3	SOS 001	Gen Ed Social Science	X		3
CI 110	Sequence Elective (see 'D' below) (CI 110)			3	CSC 317	Computer Systems & C Programming			3
HI101 or HI 102	History of Civilization I or History of Civilization II	X		3	OCV 001/ WCV 001	Gen Ed Other World Civ/ Western Civ	X		3
	Physical Education			.5	REC 000	Recreation Elective			0.5
EN102	English 2: Ideas & Values in Literature	X		3	ENG 110	Intro to Literature	X		3
MA151	Calculus 1	X		4	MAT 151	Calculus I	X		4
PY 101	Social Science Elective (see 'B' below) (PY 101)	X		3	PSY 100	Principals of Psychology	X		3
HI101 or HI 102	History of Civilization I or History of Civilization II	X		3	OCV 001/ WCV 001	Gen Ed Other World Civ/ Western Civ	X		3
CI 130	Sequence Elective (See "D" below)				CS 108	Computing Fundamentals			3
	Physical Education			.5	REC 000	Recreation Elective			0.5
MA152	Calculus 2	X		4	MAT 152	Calculus II	X		4
MA275	Discrete Algebraic Structures	X		4	MAT 115	Finite Math for Comp Sci	X		4
PH 261	Natural Science Elective (see 'A' below)	X		4	PHY 201	Calculus Based Physics	X		4
	Restricted Elective (see 'C' below) See SUNY Poly Notes			3		Open Elective			4
	Physical Education			.5	REC 000	Recreation Elective			0.5
MA253	Calculus 3	X		4	MAT 253	Calculus III	X		4
MA280	Linear Algebra	X		3	MAT 280	Linear Algebra	X		3
PH 262	Natural Science Elective (see 'A' below)			4	PHY 202	Calculus Based Physics II			
	Restricted Elective (see 'C' below) See SUNY Poly Notes			3	MAT 260	Ord Diff Eqtns & Series Sltns			4
	Physical Education			.5	REC 000	Recreation Elective			0.5
					MAT 370	Applied Probability			4
					MAT 381	Modern Algebra			4
					CSC XXX	Computer Science Course			4
					COM 306 or 308	Upper Division Writing			4
					MAT XXX	Restricted Elective			4
						Open Elective			4
						Open Elective			4
						Open Elective			4
					MAT 420	Complex Analysis			4
					MAT XXX	Restricted Elective			4
						Open Elective			4
						Open Elective			4
					Spring				
					MAT 425	Real Analysis			4
					MAT XXX	Restricted Elective			4
						Open Elective			4
						Open Elective			4
	Total Credits Eligible for Transfer			64		Total Transfer Credits Applied to Program			60
						Total Credits Required after Transfer			64
						Total Credits Required for Degree			124

A.) Natural Sciences: BI142, CH142, GL102, PH142, PH152, PH 261,PH262
Poly Recommends students take PH 261 & PH 262

B.) Social Science: AN101, BM101, PS101, PY 101, SO101. **Poly recommends students take PY 101 as one of**

the two Social Sciences electives.

C.) Restricted Elective: six credits except PE or TRF **POLY Recommends students take either CI 230, CI 24 or CI 260n & MA 260**

if a student wants to pursue a minor in computer

science

D.) Sequence Elective: two classes in CI110 or CI130 **POLY Recommends completing this sequence** or two classes in FL, FR, GR, IT, SP