Mohawk Valley Community College **LAS: Mathematics & Science - Physics**						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
CH141	General Chemistry 1	X		4		CHE 130	Introductory Chemistry I	X		4
EN101	English 1: Composition	X		3		ENG 101	Freshman Composition	X		3
ES161	Introduction to Engineering & Science			3		ESC 110	Introduction to Engineering			3
MA151	Calculus 1	X		4		MAT 151	Calculus I	X		4
	Physical Education			.5		REC 000	Recreation Elective			0.5
CH142	General Chemistry 2	X		4		CHE 131	Introductory Chemistry II	X		4
EN102	English 2: Ideas & Values in Literature	X		3		ENG 110	Intro to Literature	X		3
MA152	Calculus 2	X		4		MAT 152	Calculus II	X		4
PH261	Engineering Physics 1	X		4		PHY 201	Calculus Based Physics I	X		4
	Physical Education			.5		REC 000	Recreation Elective			0.5
ES291	Electrical Circuits 1			4		ECE 260	Electrical Circuits			4
MA253	Calculus 3	X		4		MAT 253	Calculus III	X		4
PH262	Engineering Physics 2	X		4		PHY 202	Calculus Based Physics II	X		4
	Social Science Restricted Elective (see 'A' below)	X		3		PSY 100	Principals of Psychology	X		3
	Physical Education			.5		REC 000	Recreation Elective			0.5
HI101	History of Civilization 1	X		3		WCV 101	Gen Ed West Civ	X		3
MA260	Differential Equations	X		3		MAT 260	Ord Diff Eqtns & Series Sltns	X		4
MA280	Linear Algebra	X		3		MAT 280	Linear Algebra	X		3
PH265	Modern Physics and Thermodynamics			4		PHY 290	Topics in Physics			4
PH270	Waves and Oscillations (See 'B' Below)			3		PHY 203	Physics III			3
	Physical Education			.5		REC 000	Recreation Elective			0.5
						MAT 370	Applied Probability			4
						MAT 381	Modern Algebra			4
						CSC XXX	Computer Science Programming Course			4
							Open Elective			4
						MAT XXX	Restricted Elective			4
						COM 306 or 308	Upper Division Writing			4
						CSC XXX	Computer Science Course			4
							Open Elective			4
						MAT 420	Complex Analysis			4
						MAT XXX	Restricted Elective			4
							Gen Ed			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			**63**
							Total Credits Required after Transfer			**64**
							Total Credits Required for Degree			**124**

A.) Social Science Elective: AN101, PS101, PY101, SO101

B.) For the purposes of this agreement this course articulates with PHY 203 at SUNY Poly. Should curriculum changes be made amendments to this advisement guide will follow.