

Mohawk Valley Community College Engineering Science					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					
CH141	General Chemistry 1	X		4	CHE 130	Introductory Chemistry I	X		4
CI140	Computer Programming for Engineers and Scientists			3	CS 108	Computing Fundamentals			3
EN101	English 1: Composition	X		3	ENG 101	Freshman Composition	X		3
ES151	Introduction to Engineering			2	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
BM101	Core GE Social Science Elective	X		3	SOS 001	Gen Ed Social Science	X		3
EN102	English 2: Ideas & Values in Literature	X		3	ENG 110	Intro to Literature	X		3
ES175	Engineering Science Design			3	MTC 000	Mechanical Engineering Elective			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
ES271	Engineering Statics			3	MTC 218	Statics			3
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			4	PHY 202	Calculus Based Physics II			4
PY101	Social Science Elective (See "A" below)	X		3	PSY 100	Principals of Psychology	X		3
	Physical Education			.5	REC 000	Recreation Elective			0.5
MA260	Differential Equations	X		3	MAT 260	Ord Diff Eqtns & Series Sltns	X		3
ES261	Mechanics of Materials			3	MTC 336	Material Science Applications			3
ES272	Engineering Dynamics			3	ESC 240	Engineering Mechanics: Dynamics			3
MA 280	Restricted Elective (See "B" below)	X (if MA 280)		3	MAT 280	Linear Algebra	X		3
	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	66				
								Total Transfer Credits Applied to Program	66
								Total Credits Required after Transfer	58
								Total Credits Required for Degree	124

A.) Core GE Social Science Elective (choose two, one if which must be a bolded course): **AN 101, BM 101, PS 101, PY 101, SO 101**, HI 101
POLY Recommends students take PY 101

B.) Restricted Elective (choose one): CH 142, ES 281, ES 292, MA 280 or PH 263. Poly Recommends student take MA 280 to complete elective.