

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
				<b>Total Credits Eligible for Transfer</b>	<b>66</b>				
								<b>Total Transfer Credits Applied to Program</b>	<b>66</b>
								<b>Total Credits Required after Transfer</b>	<b>58</b>
								<b>Total Credits Required for Degree</b>	<b>124</b>

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.