	Mohawk Valley Community College **Computer Applications Programming**					SUNY Polytechnic Institute Computer Information Science				
Course #	**Course Title**	**SUNY Gen Ed**		**Credits Granted**		**Course #**	**Equivalent Course Title**	**SUNY Gen Ed**		**Credits Accepted**
CF 100	College Foundation Seminar			1		FYS 101	First Year Seminar			1
EN101	English 1: Composition	X		3		ENG 101	Freshman Composition	X		3
CI110	Principles of Programming			3		CSC 317	Computer Systems & C Programming			3
CI121	Microcomputer Techniques for Science			3		CSC 000	Computer Science elective			3
	GE Mathematics (See "A" below)	X		3-4		MAT 001	General Education Mathematics	X		3
	GE Social Science (See "B" below)	X		3		SOS 001	General Ed – Social Science	X		3
	Physical Education			.5		REC 000	Recreation Elective			.5
EN102	English 2: Ideas & Values in Literature	X		3		ENG 110	Introduction to Literature	X		3
CI130	Programming in C++			3		CS 108	Computing Fundamentals			3
	GE Social Science (See "B" below)	X		3		SOS 001	General Ed – Social Science	X		3
	GE Mathematics (See "A" below)	X		3		MAT001	General Ed – Math see notes	X		3
PH115	Science of Multimedia			4		NSC001	Science Elective see notes			4
	Physical Education			.5		REC 000	Recreation Elective			.5
CI230	Data Structures			3		CS 240	Data Structures			3
CI285	Systems Operations & Management			3		CSC000	Computer Science elective			3
PH114	Science of Digital Imaging			4		NSC001	Science elective			4
	Core GE Natural Science (See "C" below)	X		4		NSC 001	Science Elective see notes	X		4
	Computer Language Elective (See "D" below)			3		CS249	Object-Oriented Programming			3
	Physical Education			.5		REC 000	Recreation Elective			.5
CI256	Intro to Programming for the Internet			3		CSC 000	Computer Science Elective			3
CI271	Database Design & Implementation			3		IS 325	Database Management Systems			3
CI272	Visual Basic			3		CSC 301V	Visual Basics			3
	Computer Science Elective (See "E" below)			3		CSC000	Computer Science elective			3
	Physical Education			.5		REC 000	Recreation Elective			.5
							Upper Level Computer Science Elective			4
							Gen Ed Elective			4
							Gen Ed Elective			4
							Open Elective			4
							Upper Level Computer Science Elective			4
							General Education Elective			4
							General Education Elective			4
							Open Elective			4
						CS 431	Principles of Programming Languages			4
						CS 3XX	Upper Level Computer Science Elective			4
							Open Elective			4
							Open Elective			4
						CS 498	Capstone Project			4
							Open Elective			4
							Open Elective			4
							Open Elective			4
	Total Credits Eligible for Transfer			**63-64**			Total Transfer Credits Applied to Program			**63-64**
							Total Credits Required after Transfer			**61-60**
							Total Credits Required for Degree			**124**

A.) GE Mathematics (student must take 2 courses, one of which chosen from the BOLD choices): **MA 108, MA 110, MA 115, MA 121, MA 125, MA 131, MA 139, MA 150, MA 151 or MA 172**, MA 122, MA 140, MA 152 MA 223, MA 253, MA 260, MA 275, or MA 180

SUNY Poly recommends MA 131 and MA 151 or MA 110

B.) GE Social Science (student must take 2 courses, one of which chosen from the BOLD choices): **AN 101, BM 101, GE 101, PS 101, PY 101, or SO 101,** BM 110, BM 115, CI 104, ED 205, IS 101, PS 202, PS 203, PS 204, PS 205, PY 201, PY 202, PY 203, PY 204, PY 205, PY 206, PY 207, PY 208, PY 212, SO 202, SO 203, SO 204, SO 205, SO 206, SS 218

C.) GE Natural Science (choose one):**SUNY Poly recommends either BI 141, BI 216, CH 141,or PH 261**

D.) Computer Language Elective (choose one): CI 245, CI 260

E.) Computer Science Elective (choose one): CI 212, CI 224, CI 232, CI 242, or CI 280

SUNY Poly Notes:

Four math courses are required for graduation:

    1) Finite or Discrete Math (MAT 115 or MAT 413)

    2) Calculus I (MAT 151)

    3) Two of the following: Calculus II, Linear Algebra, Statistics, Numerical Methods, Probability, Number Theory, Geometry, Symbolic Logic, Mathematical Modeling, or Calculus III.

Minimum of two courses required by science and/or engineering majors.

SUNY Polytechnic Institute	MVCC
BIO 101T/L Introduction to Biology Lecture/Lab	BI 101
BIO 103T/L Biology 1 Lecture/Lab	BI 141
BIO104T/L Biology 2 Lecture/Lab	BI 142
BIO 215T/L Anatomy and Physiology 1 Lecture/Lab	BI 216
BIO 216T/L Anatomy and Physiology 2 Lecture/Lab	BI 217
BIO 270 Cell Biology	No Equivalent
BIO 275 T/L Microbiology Lecture/Lab	BI 201
CHE 110T/L Essentials of Chemistry w/lab	CH 111
CHE 130T/L Introductory Chemistry I Lecture/Lab	CH 141
CHE 131T/L Introductory Chemistry 2 Lecture/Lab	CH 142
CHE 230T/L Organic Chemistry 1 Lecture/Lab	CH 247
CHE 231T/L Organic Chemistry 2 Lecture/Lab	CH 248
PHY 201T/L Physics I (calc-based)	PH 261
PHY 202T/L Physics II (calc-based)	PH 262