

Mohawk Valley Community College Computer Science					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
CI110	Principles of Programming			3	CSC 317	Computer Systems & C Programming			3
CI130	Programming in C++			3	CS 108	Computing Fundamentals			3
EN101	English 1: Composition	X		3	ENG 101	Freshman Composition	X		3
MA151	Calculus 1	X		4	MAT 152	Calculus I	X		4
HI 101	History of Western Civ I	X		3	SOS 001	General Ed – Other Wold Civ & Western Civ	X		3
	Physical Education			.5	REC 000	Recreation Elective			.5
CI230	Data Structures			3	CS 240	Data Structures			3
EN102	English 2:Ideas & Values in Literature	X		3	ENG 110	Introduction to Literature	X		3
MA152	Calculus 2	X		4	MAT 152	Calculus II	X		4
PH115	Science of Multimedia			4	NSC 001	Natural Science Elective			4
SO 101	Introduction to Sociology	X		3	SOS 001	General Ed – Social Science	X		3
	Physical Education			.5	REC 000	Recreation Elective			.5
	Physics Elective (See "C" below)	X		4	NSC 001	Natural Science Elective see notes	X		4
CI245	JAVA Programming			3	CS 249	Object Oriented Programming			3
CI285	Systems Operations & Management			3	CSC 000	Computer Science Elective			3
MA275	Discrete Algebraic Structures	X		4	MAT 115	Finite Math for Computer Science	X		4
	Physical Education			.5	REC 000	Recreation Elective			.5
CI260	Microcomputer Programming			3	CS 220	Computer Organization			3
CI271	Database Design & Implementation			3	IS 325	Database Management Systems			3
	Physics Elective ( See "C" below)	X		4	NSC 001	Natural Science Elective see notes	X		4
	Elective (See "D" below)	X		3	Gen Ed	General Education	X		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
				<b>63</b>					<b>63</b>
									<b>61</b>
									<b>124</b>

- A.) GE Social Science (choose one): AN 101, BM 101, GE 101, PS 101, PY 101, or SO 101
- B.) Students must complete 2 courses from History/Civilization/The Arts: Choose two courses from the following different options:
  - a.) HI 111 or HI 112
  - b.) HI 101, HI 102, HI 103, HI 104, HU 204, HU 205, HU 290 or HU 295
  - c.) AN 102, GE 101, HU 227, HU 228 or SO 207
  - d.) EN 197, GC 244, HU 183, HU 184, HU 187, HU 188, HU 210, HU 292 or PT 205
- C.) Physics Elective (choose one sequence): SUNY Poly recommends PH 261 & PH 262
- D.) Elective: Students must choose two courses from the following four categories:
  1. American History HI111, HI 112
  2. Western Civilization
  3. Other World Civilization
  4. Arts

**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