Mohawk Valley Community College LAS: Mathematics and Science - Mathematic				
Course #	Course Title	SUNY Gen Ed	Major or Pathway	Credits Granted
CF100	College Foundations Seminar (1)			1
EN101	English 1: Composition	X		3
MA 150	Pre-Calculus	X		4
	Social Science Elective (A)	X		3
CI110	Principles of Programming		X	3
HI101	History of Civilization 1	X		3
	Physical Education			.5
EN102	English 2: Ideas & Values in Literature	X		3
CI130	Programming in C++			3
MA151	Calculus 1	X	X	4
	Social Science Elective (A)	X		3
HI 102	History of Civilization 2	X		3
	Physical Education			.5
MA152	Calculus 2	X	X	4
CI230	Data Structures		X	3
	Natural Science Elective (B)	X		4
	Restricted Elective (C)			3
	Physical Education			.5
MA253	Calculus 3	X	X	4
MA280	Linear Algebra	X	X	3
	Natural Science Elective (B)	X		4
MA275	Discrete Algebraic Structures (Suggested Restricted Elective) (2)		X	4
	Physical Education			.5
	Total credits required for degree completion at MVCC			64

University at Albany Computer Science and Applied Mathematics B.S. (Combined Major/Minor)				
Course #	Equivalent Course Title	SUNY Gen Ed	Major or Pathway	Credits Accepted
QNCRE00	No Credit Given at UAlbany			0
ANEG 100Z	Introduction to Analytical Writing	X		3
AMAT 100	Precalculus Mathematics	X		4
	SUNY Gen Ed Social Science Elective	X		3
ICSI 201	Introduction to Computer Science		X	3
AHISE10WD	100-Level History Elective	X		3
	General Elective Credit			.5
AENG 121	Reading Literature	X		3
ICSIE00	Computer Science Elective – no credit given in major/minor			3
AMAT 112	Calculus I	X	X	4
	SUNY Gen Ed Social Science Elective	X		3
AHISE10WD	100-Level History Elective	X		3
	General Elective Credit			.5
AMAT 113	Calculus 2	X	X	4
ICSI 213	Data Structures		X	3
	SUNY Gen Ed Natural Science Elective	X		4
	General Elective Credit			3
	General Elective Credit			.5
AMAT 214	Calculus of Several Variables	X	X	4
AMAT 220	Linear Algebra	X	X	3
	SUNY Gen Ed Natural Science Elective	X		4
ICSI/ICEN 210	Discrete Structures		X	4
	General Elective Credit			.5
Total Credits Eligible for Transfer				**63**
Additional Required and Elective Courses for the Major at UAlbany				
	Challenges of the 21st Century	X	X	3
ICSI/ICEN 333	Programming at the Hardware Software Interface		X	4
ICSI 403	Algorithms and Data Structures		X	3
	Elective Credits Required for Degree Completion		X	14
	Concentration (3)		X	33
	Total Credits required at UAlbany			**57**
	Total Credits Applied to Program			**63**
	Total Credits Required for Degree			**120**

(A)Social Science: AN 101, BM 101, PS 101, or SO 101
(B)Natural Science Elective: BI 142, CH 142, CL 102, PH 142, PH 152, or PH 262
(C)Restricted Elective: six credits except PE or TRF
(1)The University at Albany does not accept transfer credit for College Foundations Seminar courses.
(2)This course is suggested because it meets a requirement for the major at UAlbany upon transfer.
(3)Students must select from either the General Concentration or Data Analytics Concentration.

A transfer student admitted to the University at Albany who has completed his/her A.A. or A.S. degree will be given credit for meeting SUNY's General Education requirements.
A grade of *C* or *S* or better in courses ICSI/ICEN 210, ICSI/ICEN 213, and ICSI/ICEN 333 or their transfer equivalents is a prerequisite for certain succeeding courses that are required in the program. Interested students should check the course descriptions for details. In unusual situations, such prerequisites might be waived by the department on recommendation of the succeeding course instructor. Students who do not achieve *B* or better grades in ICSI/ICEN 201, ICSI/ICEN 213, and ICSI/ICEN 333 are strongly advised to consider other majors besides Computer Science because such students may not successfully complete upper level Computer Science courses required for graduation.